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e-Planning

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Why

When

Where

How

What

Who

I keep six honest serving-men

(They taught me all I knew);

Their names are
What and Why and When

And How and Where and Who.

Rudyard Kipling, 1902

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Laboratories of Technology & Society

(e-Planning: Engineering with Hard & Social Sciences)

A Network of Living Labs

e-Planning Lab

e-Planning Consortium

Building Capacity to Help Communities

Helping Communities to Build Capacity

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e-Planning

(e-Planning: Engineering with Hard & Social Sciences)

- The Vision
- The Foundations
- The Laboratory
- The Build-Up
- The Know-How
- The Team

e-Planning Consortium

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• The Vision

Information Technology	Features / Attributes	Decision Models
Voice Manuscript	• from "few" to "few" • limited reach • without auxiliary processing • cheap, potentially universal access (low cost to enter the market) • low control / regulatory costs	Direct Democracy Heterogeneous Empires
Press Radio TV	• from "few" to "many" • non-limited reach • with processing in source • expensive, restricted access (high cost to enter the market) • average control / regulatory costs	Representative Democracy Homogeneous Dictatorships
Satellite network Fiber optics net μcomputer Internet	• from "many" to "many" • non-limited reach • with processing in source and destination • moderate access cost, potentially universal (low cost to enter the market) • high control / regulatory costs	Participatory Democracy Technocrat Dictatorships

e-Planning deals with the revolution of new IC technologies and their deep & wide impacts

Democracy cannot extend beyond the reach of a man's voice

(Plato, Walter Wriston)

Who will serve (the state) as its herald unless he has the lungs of a Stentor?

(Aristotle, Polit., VII, 1326 b, 7-11)

an emerging transdisciplinary field

In Ferraz de Abreu, P 2002 "New Information Technologies in Public Participation: A Challenge to Old Decision-making Institutional Frameworks", MIT

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• The Vision

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e-Planning deals with the revolution of new IC technologies and their deep & wide impacts

Shifting paradigms...

- From
  - centralized broadcast dissemination (e.g. TV, Radio)
  - "bigger is better" in computing power (e.g. mainframes)
- To
  - decentralized network interaction (e.g. internet, web)
  - "small & ubiquos" in computing power (e.g. pc, smart phones)

.. impact everywhere...

economy, finances, business models, environment-health, safety, wars, learning, education, arts, institutions, regulation, participation, **power**

... and require deep new knowlegdge on both Technology and Society

an emerging transdisciplinary field

In Ferraz de Abreu, P 2002 "New Information Technologies in Public Participation: A Challenge to Old Decision-making Institutional Frameworks", MIT

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• The Vision

e-Planning embodies a new paradigm of Technology with Social Sciences

Going past the traditional "blackbox" disciplinary approach…

Social Science	=>	Technology from a "user" point of view	=>	Outsource technology to Engineers
Technology	=>	Social science from a "consultant" point of view	=>	Outsource social study to Social Scientists

… the new e-Planning synoptical transdisciplinary approach:

Social Scientists	<=>	Develop technology with understanding of social science; and develop social science with understanding of technology	<=>	ICTechnology Scientists & Engineers

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e-Planning sets a transdisciplinary research agenda of Technology with Social Sciences

Mission:

To **research,** but also develop, prototype, test and transfer, information and communication technologies (ICT) in the **planning** context, together with the study of ICT related social needs and of its impacts in society; based on transdisciplinarity (Engineering, “Hard” & Social Sciences, and Humanities):

- Develop and transfer ICT at the service of public interest and driven by it;

- Research ICT impacts and ICT diffusion processes in planning;

- Build capacity with sustainable ICT developments & Institutions;

- Breed networked entrepreneurship as well as social capital.

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e-Planning agenda targets ICT
in support of society and citizens

Objectives:

We seek new ICT with social frameworks that:

- ***Link Academia with Society***

Society incorporates business, but also public administration, civil society and individual citizens. We focus on good e-government and e-governance, but also good e-NGOs; on e-cities and e-regions that innovate but are inclusive; on ICT that foster social networks empowering both communities and individuals.

- ***Fill-in for market faillures***

ICT developed in Academia must be atoned to market dynamics, but must specially be responsive to social needs. This requires excellence in both ICT and social sciences / humanities.

-***Optimize Social Capital*** returns, besides enabling scaled entrepreneurship.

We approach ICT-based entrepreneurship as an extension of citizenship in the era of ICT social networks, enabling self-reliance & choice of alternative social-economic paths.

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e-Planning Agenda was created as part of an e-Planning Consortium, open to society

Consortium:

The strategic approach includes an *e-Planning Consortium* open to society, at international level, with initial anchors in the community of Portuguese speaking countries (CPLP), in Europe (EU) and at MIT (USA). This Consortium, led by academic institutions, is a collaborative platform for *research and action* on the e-Planning agenda.

- Academic Institutions (teaching, research and knowledge transfer)
- Business enterprises, Cooperatives and Associations for economic activities
- Public Administration and Government at local, national, regional & multi-national levels
- Non-Governamental Organizations, Non-Profit Associations and Civil society institutions

Consortium e-Planning

www.e-planning.org

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- **The Vision**

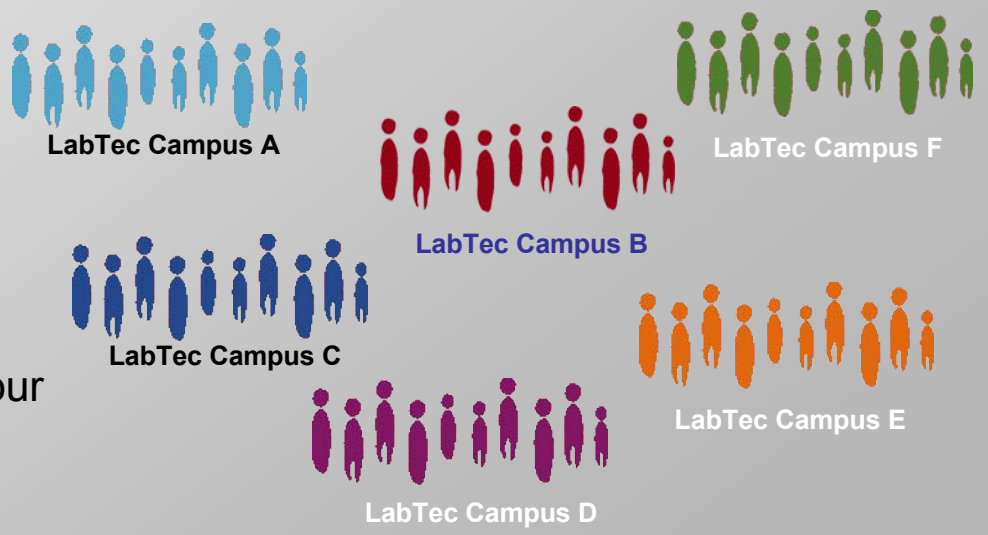
e-Planning Lab is structured as a Network of ***Living Laboratories***

Approach:

Given the challenges of transdisciplinarity, engaging bodies of knowledge so diverse, from different areas in social and “hard” sciences to engineering, the best approach is to allow multiple centers with complementing focus and overlapping know-how, collaborating as a *live network*, linked by common goals.

The concept of *Living Laboratories*, is particularly adequate for such **Network of LabTec TS**

Therefore, each Academic Research Center can contribute with its own flavour of an ***ePlanning*** **LabTec TS Campus**.



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• The Vision

One "core" e-Planning Lab Campus needs resources to make a very special contribute

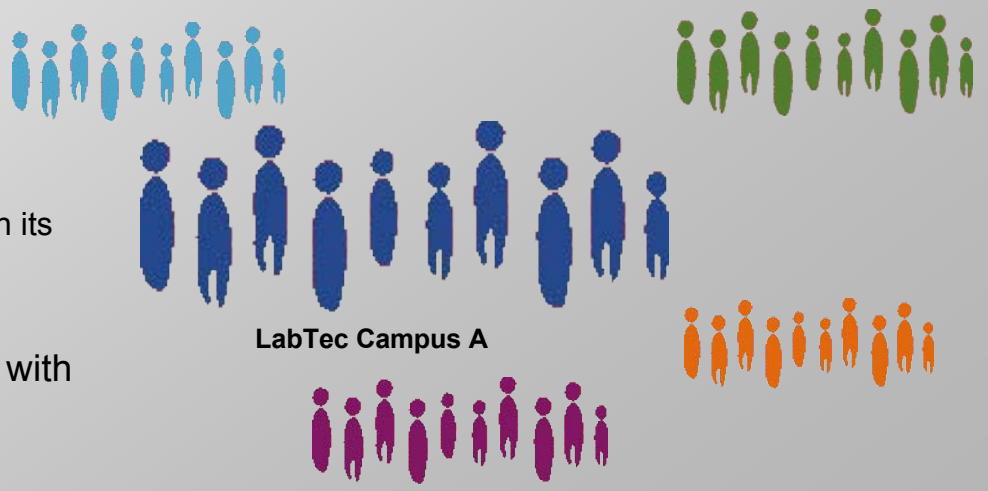
Approach:

While the strategic approach envisions multiple campus of e-Planning Labs collaborating as a *live network*, linked by common goals, in the current stage it is essential to have one **main campus**, to foster the network, acting as facilitator, support and reference Lab.

The concept of *Living Laboratories*, is particularly adequate for such **Network of LabTec TS**

Each Academic Research Center can contribute with its own flavour of an ***ePlanning*** LabTec TS Campus.

On early stages, it is vital to be able to count with one ***ePlanning*** **LabTec TS** ***Core Campus.***



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• The Vision

e-Planning Lab Core Campus as a special unit for knowledge and technology transfer

Core Campus:

An ***e-Planning Lab* Core Campus** must gather critical resources to act as a special Unit of Knowledge & Technology Transfer, building directly on:

- *Specific scientific & technology capacity and strenghts;*

- *Core membership in the **e-Planning Consortium**, and anchor of Joint Programs;*

- *Key role in building an **e-Planning Center**, as cross-cut entity transversal to Departments and Universities, in line with the future transdisciplinary "Colleges";*

- *Strategic partnership with international research centers such as CITIDEP;*

- *Strategic partnership with top-notch world class Universities, such as MIT.*

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- The Team

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• The Foundations

e-Planning Agenda, was created at MIT

Professor Ferreira (**Joseph Ferreira Jr.)** was the founding director of the Planning Department's Computer Resource Lab and is now head of Urban Information Systems. He teaches analytical methods and computer-based modeling for planning and urban management including courses involving extensive use of geographic information systems (GIS) and database management. Both Prof. Ferreira's undergraduate degree (in electrical engineering) and his PhD degree (in operations research) are from MIT. His research uses GIS and interactive spatial analysis tools to model land use, transportation, and environmental interactions and to build sustainable information infrastructures for supporting urban and regional planning. He is a past-president of the Urban and Regional Information Systems Association (URISA) and has been principal investigator of numerous research projects studying job-housing balance, urban performance measures, and urban information infrastructure. His current research includes the Future Urban Mobility project within the Singapore/MIT Alliance for Research and Technology where he is the SMART Research Professor of Urban Information Systems."

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e-Planning Agenda, was created at MIT

e-Planning Seminar, MIT course, by Prof. P. Ferraz de Abreu, 2003

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e-Planning Lab was born as part of the e-Planning Agenda, created at MIT

Session topics: (A- Breadth)

1) Community level: **e-Community Planning**

- Neighborhood Information Systems
- Community Statistical Systems
- e-Neighborhoods
- Community Empowerment

2) City level: **Enhancing City Performance**

- City Knowledge and Meta-Knowledge
- Measuring and Monitoring City Activity and Performance
- Learning about Cities through IT
- The IT infrastructure for City-level e-Government / e-Planning

3) Global level: **The Fading Borders between Regional, National and Local Planning**

- e-Government and e-Planning: new inter-dependencies between national, regional and local plans
- e-social movements and multi-level impacts
- Informal governance and challenges to land-based sovereignty

e-Planning Seminar, MIT course, by Prof. P. Ferraz de Abreu, 2003

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e-Planning Lab was born as part of the e-Planning Agenda, created at MIT

Session topics: (B- Issues)

1) **Public Participation**

- •Technologies of Communication for citizen empowerment
- •Technologies of Knowledge for responsible citizen participation
- •New citizen responsibility with de-regulation
- •New role of the planner in governance

2) **Privacy, Security and freedoms in the e-World**

- •Planning, IT and the trade-off between security and freedom
- •e-data vulnerability and free flow of information
- •New e-manipulation and metadata standards
- •Location-based services and data access: (Big-brother vs. efficient monitoring)
- •Preserving individual rights (free circulation of information vs. protection from bad uses of that information, safety in travel and accessing city space vs. citizen mobility, privacy in communications - Internet, voice, etc.).

3) **Urban Modeling and Urban Design**

- •The implications of transparent models and increasingly 'sensed urban spaces
- •The changing economics of place
- •Who benefits from GIS and spatial analysis
- •The geography of change in the e-World
- •New spatial relationships (e.g., e-abutters)
- •Facilitating the sharing of planning models and data

4) **Environmental Planning**

- •Citizen participation in Evironmental Impact Analysis
- •Kyoto and transportation planning
- •The impacts of EnviroMapper as a public information strategy
- •Spatial analysis and environmental justice

5) **Institutional Reform**

- •the emergence of new frameworks with real impact in planning and governance, both formal and informal.
- •Planning in the knowledge-based society
- •e-Accountability
- •Shifts of decision centers in e-Government
- •IT challenges to hierarchy paradigms in public administration

e-Planning Seminar, MIT course, by Prof. P. Ferraz de Abreu, 2003

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e-Planning Lab was born as part of the e-Planning Agenda, created at MIT

Intersecting the ***e-Planning Seminar***. CITIDEP and MIT organized **ICPPIT03.** Off-conference networking meetings led to a Living Labs concept and to an informal LabTec TS Network Task Force

ePlanning proponents: Pedro Ferraz de Abreu & Joseph Ferreira Jr.

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CITIDEP and MIT are the founders of the LabTec TS (e-Planning) Academia Network

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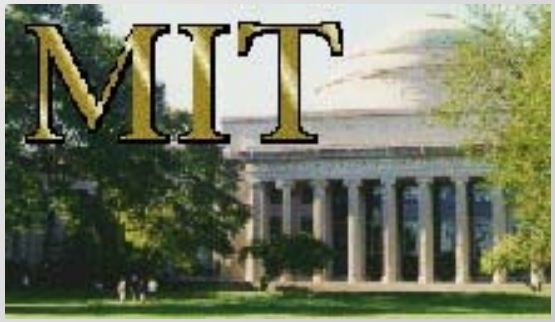
dusp.mit.edu



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www.citidep.net/icppit03/

NGO Research Center

Partner of MIT-DUSP;
Commended by UNESCO;
Partner of JRC-EU Comm.

MIT - Massachussets Institute Of Technology

DUSP - Department of Urban Studies & Planning

ICPPIT03 - International Conference on Public Participation & Information Technologies, at MIT

Launched LabTec TS Informal Network, 2003

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Prof. Larry Vale, Head of DUSP-MIT, addressed the meeting CITIDEP+MIT

ICPPIT03 - Launching LabTec TS informal network, Stella Room, MIT, USA, 2003

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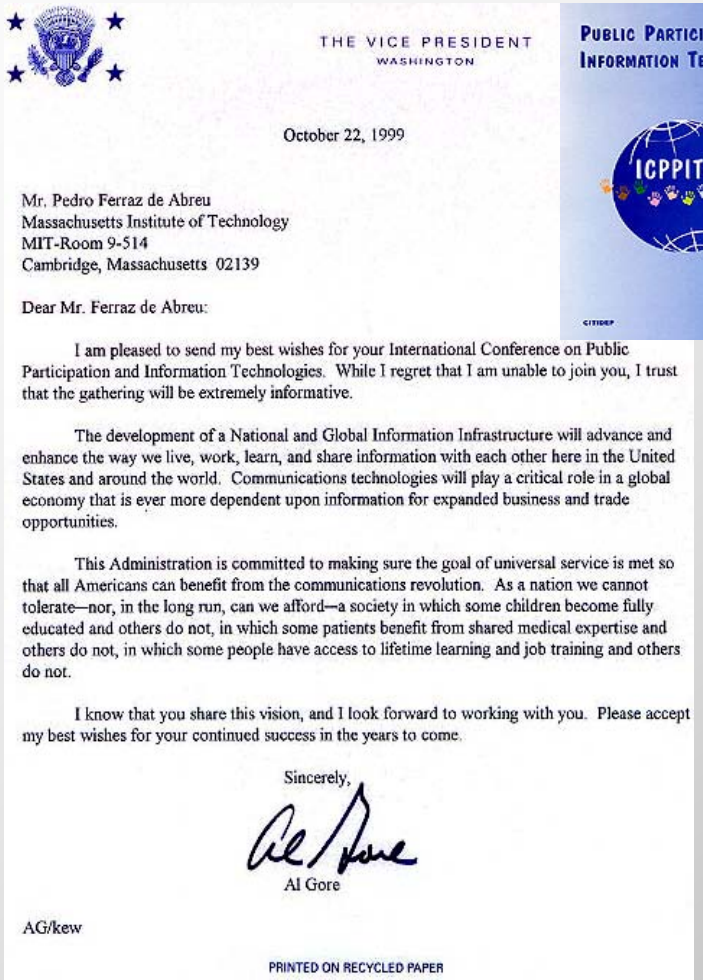
• The Foundations



THE VICE PRESIDENT
WASHINGTON

October 22, 1999

Mr. Pedro Ferraz de Abreu
Massachusetts Institute of Technology
MIT-Room 9-514
Cambridge, Massachusetts 02139

Dear Mr. Ferraz de Abreu:

I am pleased to send my best wishes for your International Conference on Public Participation and Information Technologies. While I regret that I am unable to join you, I trust that the gathering will be extremely informative.

The development of a National and Global Information Infrastructure will advance and enhance the way we live, work, learn, and share information with each other here in the United States and around the world. Communications technologies will play a critical role in a global economy that is ever more dependent upon information for expanded business and trade opportunities.

This Administration is committed to making sure the goal of universal service is met so that all Americans can benefit from the communications revolution. As a nation we cannot tolerate—nor, in the long run, can we afford—a society in which some children become fully educated and others do not, in which some patients benefit from shared medical expertise and others do not, in which some people have access to lifetime learning and job training and others do not.

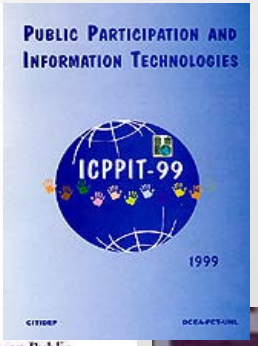
I know that you share this vision, and I look forward to working with you. Please accept my best wishes for your continued success in the years to come.

Sincerely,

Al Gore

AG/kew

PRINTED ON RECYCLED PAPER



CITIDEP itself was born between USA (MIT) and Portugal, 1995-1999

www.citidep.net/icppit99/

ICPPIT99 - International Conference on Public Participation & Information Technologies, CITIDEP with UNL, in Lisbon, 1999

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CITIDEP itself was born between
USA (MIT) and Portugal, 1995-1999

www.citidep.net/icppit99/

ICPPIT99 Task Force

ICPPIT99 - International Conference on Public Participation & Information Technologies, CITIDEP with UNL, in Lisbon, 1999

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1996

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CITIDEP became an international network active on e-Planning agenda

Vesna Dolnicar	Slovenia
Timothy Sieber	USA
Luis Rionda	Mexico
Jorge Edison	Brasil
Clelia Guinazu	Argentina
Charlotte DeKock	Belgium
Valérie Aillaud	France
Laura Colini	Italy
Ambriseth Lima	Cabo Verde
Pedro Ferraz de Abreu	Portugal

www.citidep.pt • www.citidep.net

CITIDEP - Research Center on Information Technologies & Participatory Democracy, since 1996

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• The Foundations

CITIDEP promoted the MIT-Portugal e-Planning Consortium Task Force

e-Planning Task Force:

created in 2005

• MIT-DUSP
Joseph Ferreira Jr
Pedro Ferraz de Abreu

• CITIDEP
Pedro Ferraz de Abreu
João Joanaz de Melo

• FC-UL
José Manuel Pinto Paixão

• FCT-UNL
João Joanaz de Melo

• ICS-UL
Luisa Schmidt
Tiago Saraiva

• CSJP-UA
Eduardo Anselmo de Castro
Maria João Antunes

• Following up the first e-Planning Seminar at MIT (2003), and the "interest groups" emerging from the ICPPIT03 Conference at MIT (MIT-CITIDEP), it was created in 2005 an informal task force to bring e-Planning into the MIT-Portugal Program.

This task force had regular meetings at ICAT - FC-UL Campus. Besides both Deans (J.M. Pinto Paixão, N. Guimarães), more than a dozen other faculty and researchers attended meetings (CITIDEP, MIT, CSJP-UA, DeCA-UA, ICS-UL, FCT-UNL, FE-UC, IPVC-ESE, FLAD, FA-UTL).

In Portugal, e-Planning was thus born also around the same core MIT & CITIDEP team.

• It was notorious that MIT - DUSP faculty were very interested in this initiative, and attended many meetings in Portugal. The discussion was very thorough, since we were aware of the difficulties of bringing together a transdisciplinary agenda. The debate was a powerful source of inspiration with the team often taking photos of the blackboard, where piece by piece a consistent and comprehensive agenda was taking shape.

• In April 2006, Pedro Ferraz de Abreu distributed a memorandum where the e-Planning Consortium and agenda was first formally proposed, and accepted, both at MIT and in Portugal, and task force members became formal representatives of their Institutions.

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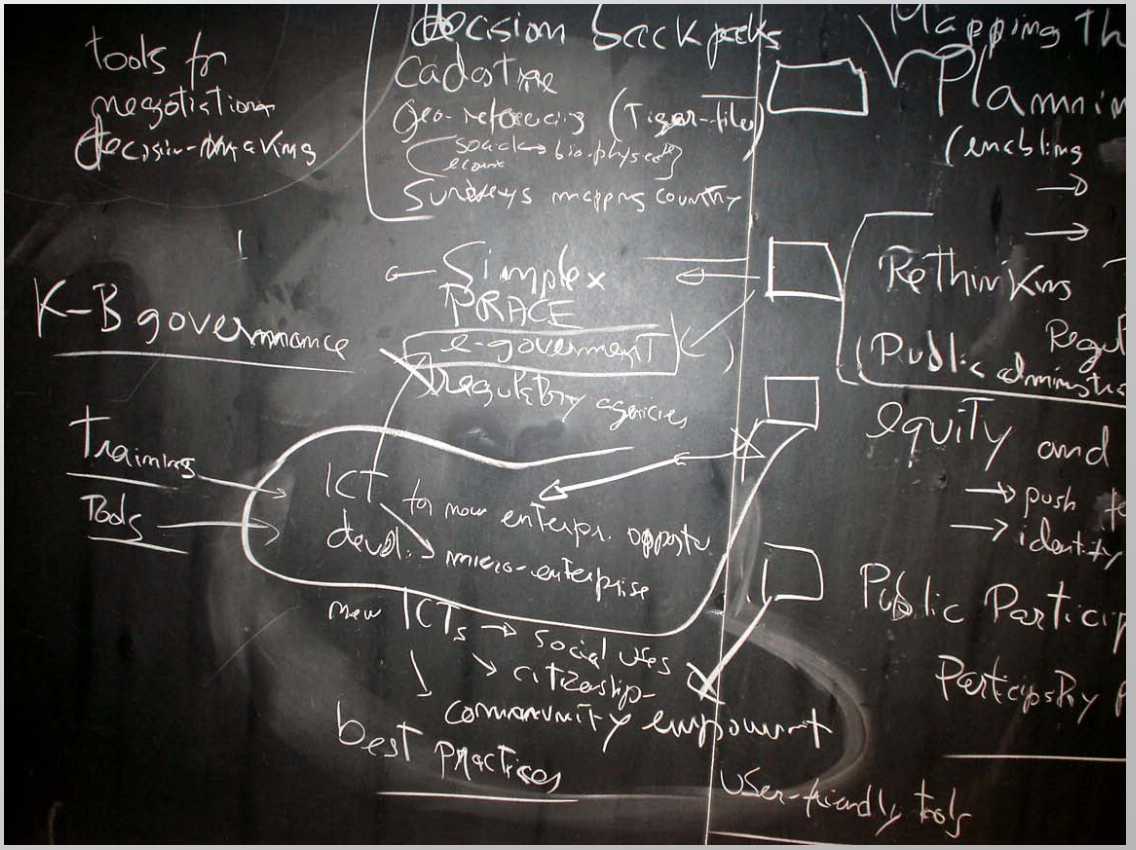
• The Foundations

CITIDEP promoted the MIT-Portugal e-Planning Consortium Task Force

e-Planning Task Force:

created in 2005

- MIT-DUSP
  Joseph Ferreira Jr
  Pedro Ferraz de Abreu
- CITIDEP
  Pedro Ferraz de Abreu
  João Joanaz de Melo
  Melissa Shinn
- FC-UL
  José Manuel Pinto Paixão
  Nuno Guimarães
- FCT-UNL
  João Joanaz de Melo
- ICS-UL
  Luisa Schmidt
- CSJP-UA
  Eduardo Anselmo de Castro



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• The Foundations

CITIDEP proposed a LabTec TS Net for the e-Planning Consortium Agenda

e-Planning Consortium:

- MIT-DUSP
  Larry Vale
- CITIDEP
  Pedro Ferraz de Abreu
- FC-UL
  Nuno Guimarães
- FCT-UNL
  Fernando Santana
- ICS-UL
  Villaverde Cabral
- CSJP-UA
  Helena Nazaré
- ISCSP-UTL
  João Bilhim

Proposal 2006 (Institutional)

Subscribed Goals:

1 – A ***Portuguese e-Planning Center***, as a Focal Point of Excellence, based on a multidisciplinary 'Consortium' within Portuguese Academia, with strong participation of related entities from public and private sectors and civil society;

2 – A strategic institutional relationship with USA Centers of Excellence on e-Planning, such as M.I.T.;

3 – A ***European Research Network for e-Planning***, as a Network of Excellence (NOE), evolving to an *Institute for e-Planning*, within the framework of the EU Joint Research Centre, with possible headquarters in Portugal.

One key transversal component of the Program on e-Planning will be a **Laboratory of Technology & Society**, based on a **network of Labs**, which may require setting-up new facilities but mostly adapting and requalifying existing resources.

In ***"Towards e-Planning as part of MIT-Portugal,*** *MIT-Portugal/e-Planning Task Force*

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MIT report suggested e-Planning to be considered for the MIT-Portugal Program

From: Lawrence Vale <ljvale@MIT.EDU>
Subject: Re: Urgent-Towards e-Planning as part of MIT-Portugal
Date: Wed, 17 May 2006 22:40:08 -0400
To: Pedro Ferraz de Abreu <pfa@mit.edu>
Cc: Joseph Ferreira <jf@mit.edu>

Dear Pedro,

Many thanks for sending along your latest version of the proposal for collaboration between MIT/DUSP and various university programs in Lisbon on the topic of e-Planning and Urban Information Systems. I can confirm the strong interest of the MIT Department of Urban Studies in exploring the exciting dimensions for research and collaboration described in this document. Our joint efforts to link emerging information and communication technologies to initiatives to improve public administration and urban management seem particularly relevant to the challenges of enhancing economic performance and innovation in Portugal. I very much hope that this aspect of joint work can be included in the MIT-Portugal collaboration.

Yours sincerely,

Larry Vale

Lawrence J. Vale
Professor and Head,
Department of Urban Studies and Planning MacVicar Faculty Fellow
Massachusetts Institute of Technology
Room 7-337M
77 Massachusetts Ave.
Cambridge, MA 02139

Massachusetts Institute of Technology

ASSESSMENT OF AN MIT-PORTUGAL COLLABORATION
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

FINAL REPORT
AUGUST 29, 2006

CONDUCTED FEBRUARY 15 - JULY 15, 2006

PROGRAM DIRECTOR: DANIEL ROOS, PROFESSOR AND FOUNDING DIRECTOR, MIT ENGINEERING SYSTEMS DIVISION

Although we have received suggestions about many potential projects and focus areas, we mention "e-planning" initiatives in particular because we have received many expressions of interest from faculty in Portugal and MIT. We suggest that the "e-planning" initiatives should be the subject of further analyses during the coming year after the launching of the initial program.

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e-Planning Lab Network became part of the ePlanning Consortium Agenda

www.e-planning.org 2009> ***Joint PhD Program***

e-Planning Consortium

4 Universities
UTL, UNL
UL, UA

Network with MIT+CITIDEP

e-infrastructure	**e-planning knowledge infrastructure**
e-government	**e-planning for the government of the future**
e-governance	**e-planning for a new governance**
e-city & territory	**e-planning for the city of the future**
e-citizenship	**e-planning for a new citizenship**

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U LISBOA

FACULDADE DE CIÊNCIAS

e-Planning Lab Network benefits from, and supports, e-Planning curricula

www.e-planning.org

2019> ***Joint Master Program***

e-Planning Consortium

FA/UL
+
FC/UL+...

Network with MIT+CITIDEP

e-infrastructure	- Computer Aided Planning
e-government	
e-governance	- Smart Cities & Territorial Cohesion
e-city & territory	- Networks, Social Capital & Entrepreneurship
e-citizenship	

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CITIDEP created a LabTec TS task force (2007) to start-up the network

CITIDEP LabTec Task Force foundation meeting 11 Feb 2007

LabTec TS at ISCSP 28 Nov 2008 (CITIDEP + CAPP-TSG/ISCSP)

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• The Foundations

e-Planning Lab Campus result from joint CITIDEP & University Research Units

www.citidep.net

capp.iscsp.utl.pt

www.labtec-cs.net/iscsp/

+

CAPP
Centro de Administração e Políticas Públicas

=

Laboratórios de Tecnologia para as Ciências Sociais

ISCSP-UTL

NGO Research Center

Partner of MIT-DUSP;
Commended by UNESCO;
Partner of JRC-EU Comm.

ISCSP-UTL Research Unit

Public Policies - Technology Society & Governance Cluster;
Classified as “Excellent”.

University Laboratory
(2007-2012)

Technologies for Society;
First campus of the “Live Labs” ePlanning Network.

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• The Foundations

e-Planning Lab Campus result from joint CITIDEP & University Research Units

www.citidep.net

www.fc.ul.pt

www.labtec-cs.net/fcul/

CITIDEP + FACULDADE · DE · CIÊNCIAS UNIVERSIDADE · DE · LISBOA = Laboratórios de Tecnologia e Sociedade FC-UL

NGO Research Center

Partner of MIT-DUSP;
Commended by UNESCO;
Partner of JRC-EU Comm.

FC-UL Research

Geophysics, Computer Science, Statistics & Operational Research;
Classified as “Excellent”.

University Laboratory
(2013-2014)

Technologies for Society;
Focus on mobile lab, part of the ePlanning Network.

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e-Planning Lab Campus result from joint
CITIDEP & University Research Units

www.citidep.net

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www.fa.ulisboa.pt

LISBON SCHOOL OF ARCHITECTURE
UNIVERSIDADE DE LISBOA

=

www.labtec-cs.net/faul/

Laboratórios de Tecnologia e Sociedade
FA-UL

NGO Research Center

Partner of MIT-DUSP;
Commended by UNESCO;
Partner of JRC-EU Comm.

FA-UL Research

CIAUD - Architecture, Urbanism & Design;
Evaluated as “Very Good”.

University Laboratory
(2019-2020)

Technologies for Society;
Focus on smart cities & inclusion @ ePlanning Lab

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www.e-planning.org

e-Planning

(e-Planning: Engineering with Hard & Social Sciences)

- The Vision
- The Foundations
- **The Laboratory**
- The Build-Up
- The Know-How
- The Team

e-Planning Consortium

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- The Laboratory

e-Planning Lab (LabTec TS) rationale
is to support Research and Teaching

Rationale:

www.labtec-cs.net

Laboratórios de Tecnologia e Sociedade

To provide an integrated environment for the cross-cut transdisciplinary action of the e-Planning community

- support e-Planning curricula innovation & courses;

- support e-Planning joint research projects;

- host e-Planning pos-docs & visiting researchers, e-Planning students & grantees;

- support knowledge transfer initiatives, promote start-ups and community building.

e-Planning faculty & researchers are, and will stay, affiliated with different research units and depts.;
The **e-Planning LabTec** will provide a needed federating infrastructure for cross-cut inter-
- departmental, transdisciplinary work: joint research, teaching, curricular innovation, publishing.

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e-Planning Lab (LabTec TS) builds on
UL(FA+FC), UNL(FCT) & CITIDEP skills

Product Targets: (seed proposal, in discussion)

www.labtec-cs.net

Mobile Computing & Georeferenced Indicators for Planning

Mobile e-Citizenship:
- environment
- health
- civic action

Mobile e-City:
- energy
- transportation
- autarcy

Laboratórios de Tecnologia e Sociedade

Scientific trends:

- *Measure the "Performance of a City"*
  (John DeMoncheaux, MIT)
- *Local Indicators for Neighborhood Planning: Human Development (HDI) / Empowering Communities*

Methodology trends:

- Participatory Science & Spatial Analysis: *Gathering & modeling georeferenced bio-physics & socio-economic indicators, with citizen participation*

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e-Planning Lab (LabTec TS) strategy targets a wide family of lab products

Product Family:

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- **Research:** Projects, publications, events, lab measures
- **Teaching:** Curricula inovation, support to lab work in related courses; e-learning tools & support
- **Software/Hardware:** Prototyping, Patents, 'Utility Models' (pre-patent registration)
- **Training:** Transdisplinary topics and methods niche; target decision-makers, policy-makers, opinion-makers, college & highschool teachers
- **Dissemination:** Research Journal, Newsletter, web sites, media content (including tablet-oriented)
- **Certification:** Certification entity or Reference Lab for Certification authorities; Guidelines;
- **Observatories:** Observatories on ICT Policy, Impacts, Advisory Reports; White papers
- **Auditing & Benchmarking:** ePlanning Projects, Institutional Analysis & Eficciency; City & Systems Performance
- **Service Provision:** Consultant Warehouse, Service Provision on innovation, User Needs Assessment,Monitoring; Policy Evaluation; Impact Assessment; Lab Equipment support; Net Services; Collaborative tools

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e-Planning Lab (LabTec TS) as a tool
to empower and amplify existing programs

Base Plan:

www.labtec-cs.net

- Start-up with e-Planning Faculty & Researchers
  - currently teaching e-Planning related courses (Joint PhD)
  - interested researchers in labs related to e-Planning agenda
  - researchers within the International e-Planning Partner Newtork (MIT, Unicamp-Brasil, IFU-Paris, Dublin IT, CITIDEP, JRC-UE, etc.).
- Mobilize advanced students (Master & PhD)
  - incorporate thesis projects
  - integrate project tasks in e-Planning course work
  - host grants & fellowships
- Use seed funding:
  - to generate both high quality research & marketable (ex. patent) products
  - to build capacity and apply to EU & USA funding and other sources.
- Create a Socio-Economic Partner's Council *(Business, Public Admin., Municipalities, NGOs)*

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e-Planning Lab (LabTec TS) as a tool
to empower and amplify existing programs

Research Agenda:

Starting point : Joint PhD Program (e-Planning Consortium)

e-Planning knowledge infrastructure	*Mapping of the knowledge society.* *Mapping of the planning knowledge.* *Develop the new ICT infrastructures and strategic frameworks*
e-Planning for the government of the future (e-government)	*More efficient and responsive government, closer to citizens; better enabling role; better services; better adjustment to the challenge and new potential of digital implementation of administrative procedures, beyond raw automation; two-way G2G, G2C, G2B.*
e-Planning for a new governance (e-governance)	*Foster institutional culture towards the common good, more equity and less exclusion; build strategic institutional capacity within globalized world; better institutions; better regulation framework and handling of market failures; better balance of security & efficiency vs. freedoms, liberty and accountability.*
e-Planning for the city of the future (e-city) and territory	*Build the cities of the future, as sustainable environments with new functionality that breed innovation; foster cities with better quality of life, more attractive and competitive; better spatial planning, promoting social and territorial cohesion, incorporating new structural impacts of ICTs.*
e-Planning for a new citizenship (e-citizenship)	*Enable a better informed and educated citizen, more participative, more critical, more responsible; better balance of technology challenges with ethics & individual freedoms & privacy.*

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e-Planning Lab (LabTec TS) as a tool
to empower and amplify existing programs

Research Lines & Projects: (seed)

Starting point inherited from LabTec CAPP-TSG 2010-2012

	e-Government	e-Governance	e-City & Territory	e-Citizenship
Participatory Science & ICT **(e-Science)**	e-Learning Tools Collaborative Representation & Record of Cultural Knowledge (post.Cultural)			Participatory Georeferenced Environment Monitoring EuroLifeNet site
Participatory Democracy & ICT **(e-Democracy)**	Electronic Voting (iLeger) Participatory Monitoring for Local Government (mGIP)	Public Participation Support Systems (SACP)	Participatory City making with ICT	ICTs for Public Consultation in Decision-making (IMS site) School curricula, ICT literacy and local government participation
Inclusion, Cooperation & ICT **(e-Inclusion)**	e-Health/PALOPs (Cellnet) ICT for immigrant integration (Documenta) Representation Models for Cultural Chock (Erasmus case)	ICT tools to amplify the economic dimension within the world-wide portuguese community institutions	Urban walls and virtual bridges Participatory Georeferenced Monitoring of Accessibility (Mobility Trails)	A Quest for the Lost Lusofonia Internet and Social Capital Social Networks on-line ICT, Entrepreneurship and Citizenship
Policy Making, Strategy & ICT **(e-Policy)**	Cyber attacks and security strategy Cognitive Analysis of Public Policies	Energy Policy Foundations and Transparency Strategic knowledge local management (MediaClick)	Impact of broadband assymetries in territorial cohesion	Social and Political Implications of ICT Development Strategies

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e-Planning Lab (LabTec TS) as a tool to empower and amplify existing programs

Research Lines & Projects: (seed)

Starting point: Current Projects and Plan 2015-2020

1. ICT and Inclusion, Literacy, Cooperation

Projects	*Proposals*
- Potential of new satellite KA band for Digital Inclusion - Cellnet (mHealth)	• *ICT Challenges & Opportunities in CPLP space* • *Networked individualism in the European Digital age*

2. Smart Cities, Cohesion & Participatory Systems

- EU Sustainability & Efficient Use of Resources: Survey, Debate and Dissemination - Smart Cities at Enter-Hub (UrbAct Program) - IMS - Intelligent Multimedia System for Public Participation - Project EuroLifeNet - Participatory Measure of PM in Europe	• *Accessibility Trails in EU Cities: Participatory Science Approach* • *Brasilia 2060 (with CITIDEP & IBICT)* • *e-Planning Life-Long Learning program (with CITIDEP & ANAFRE)*

3. Internet Governance, Open Data, Security & Privacy

- MediaClick	• *TeleGeoDevice (open data)* • *Distributed Participatory Science and Open Data Infrastructure & Standards*

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e-Planning Lab (LabTec TS) as a tool to empower and amplify existing programs

Research Lines & Projects: (seed)

Starting point: Current PhD Thesis Projects

1. ICT and Inclusion, Literacy, Cooperation

- Sustainability factors in Digital Inclusion: the case of Digital Territories Project in Brasil
- New ICT in Portuguese speaking countries: Advantages from and for CPLP
- e-Literacy, schools & municipalities towards a common goal: e-citizenhip.

2. Smart Cities, Cohesion & Participatory Systems

- Between urban and virtual walls: the influence of ICTs on divided cities. The case of Belfast
- Promoting Local Sustainability through Indicator-based awards: The case of ECO XXI Program
- Mobile Technologies as a Tool for Efficiency Gains in Support to Citizens in Emergencies
- Decision Support Tools in the Evaluation of Housing Market
- The impact of digital asymmetries in territorial cohesion: a new dimension of spatial planning

3. Internet Governance, Open Data, Security & Privacy

- Compromise between free technology and privacy: a matter of technological literacy
- DDOS attacks and the new security framework challenges of the Era of "Hacking"
- TeleGeoProcessing Device Making the Mobile Technologies Useful in Real World Data Acquisition
- Patterns of Protection of Intelectual Property & Economic Development.

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e-Planning Lab (LabTec TS) is part of the Universities' refereed Research Units

Group Productivity:

Starting point inherited from LabTec CAPP-TSG 2010-2012

Between 2007 and 2012, the core of LabTec e-Planning Team built a research cluster on "Technology, Society and Governance" (TSG), at invitation of the "Center for Administration and Public Policies" (CAPP), hosted by ISCSP-UTL.

Before TSG team joined, CAPP was ranked "Fair" by FCT-MCES. By the end of 2008, with a significant contribution from the TSG research cluster, CAPP was ranked "Excellent".

By 2011, with 7 PhD researchers (out of a total of 111 PhD at CAPP), the TSG research cluster was among the most productive at CAPP, both in absolute and relative terms, on most metrics used by FCT-MCES in their review process. [from the 2012 report of CAPP Coordination & Presidency]

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Group Productivity:

Starting point inherited from LabTec CAPP-TSG 2010-2012

CAPP 2011

Title of Research Group	Principal Investigator	Publications in peer review Journals	Other international publications	Other national publications	Ph.D. thesis completed	Organization of conferences	Internationalization	Government/Organization contract research	Industry contract research	Patents/ prototypes	Integrated researchers with PhD	FTEs (30% research)
Public Policy Decision-Making, Implementation and Evaluation	Maria Engrácia Cardim	6	12	22	1	2	19	3	-	-	8	2,4
Social Policies	Fausto Amaro	10	3	1	2	2	-	-	-	-	14	4,2
Communication and Media	Paula Cordeiro	2	7	7	-	4	9	2	1	-	7	2,1
Technology, Society and Governance	Pedro Abreu	10	18	12	2	11	14	7	-	8	7	2,1
Sociology	Fernando Serra	7	3	4	2	22	10	-	-	-	11	3,3
African Studies	Pedro Graça	1	-	15	-	10	3	1	-	-	4	1,2
Strategy and Intelligence	Pedro Graça	5	6	14	-	15	9	-	-	-	10	3
Contemporary Territory Planning and Administration	Julián Aliseda	8	18	19	2	11	11	-	-	-	21	6,3
Mixed Methods Applied to Social and Health Sciences	Jaime Fonseca	-	16	-	1	4	-	-	-	-	8	2,4
Public Administration Research Group	Elisabete de Carvalho	8	12	20	1	9	23	3	-	-	21	6,3
		57	95	114	11	90	98	16	1	8	111	33,3

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e-Planning Lab (LabTec TS) is part of the Universities' refereed Research Units

Group Productivity:

Starting point inherited from LabTec CAPP-TSG 2010-2012

e-Planning Lab (LabTec TS) team has a consistent trajectory improving the quality of its research, which is reflected in the quality of research project proposals submitted to international refereed evaluation. The best indicator corresponds to 'EuroLifeNet', the e-planning "flag project" of the Research Cluster on "Technology, Society & Governance", coordinated by Prof. Pedro Ferraz de Abreu

Evolution of evaluation referee review of EuroLifeNet Project Proposal
Comparação entre as avaliações das candidaturas do projecto EuroLifeNet

PI - Pedro Ferraz de Abreu

	Overall Rating	Criterion A (Proposal Scientific Merit)	Criterion B (Merit of Team and PI)	Criterion C (Feasibility)	Criterion D (Contribution to K)
2009	Good	Good	Very Good	Good	Very Good
2010	Very Good	Excellent/Very Good	Very Good	Very Good	Very Good
2012	Excellent	Excellent	Excellent	Excellent	Excellent

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e-Planning Lab (LabTec TS) is part of the Universities' refereed Research Units

Group Productivity:

Demonstrated capacity for multi-disciplinary excellence

FCT - DEPARTAMENTO DE FORMAÇÃO DE RECURSOS HUMANOS

Concurso para a atribuição de Bolsas Individuais de Doutoramento e Pós-Doutoramento **2010**

Charlotte Yolande Luce J. De Kock **Referência:** SFRH/BD/71493/2010 Bolsa avaliada na área de **Ciências da Comunicação e Informação** **Orientador: Pedro Ferraz de Abreu** **Unidade de Investigação : CAPP-TSG**	**Mérito das condições de acolhimento** (considerar tanto a Instituição como o Responsável pelas actividades)	**Classificação (min=1;máx=5)**	5 Centro de Investigação (5), Orientador (5)
Francesca Savoldi **Referência: SFRH/BD/69221/2010** Bolsa avaliada na área de **Arquitectura, Urbanismo e Design** **Orientador: Pedro Ferraz de Abreu** **Unidade de Investigação : CAPP-TSG**	**Mérito das condições de acolhimento** (considerar tanto a Instituição como o Responsável pelas actividades)	**Classificação (min=1;máx=5)**	5 Centro de Investigação (5), Orientador (5)

FCT - DEPARTAMENTO DE FORMAÇÃO DE RECURSOS HUMANOS

Concurso para a atribuição de Bolsas Individuais de Doutoramento e Pós-Doutoramento 2011

Lanka Elvira Horstink **Referência:** SFRH/BD/80126/2011 Bolsa avaliada na área de **Ciência Política** **Orientador: Pedro Ferraz de Abreu** **Unidade de Investigação : CAPP-TSG**	**Mérito das condições de acolhimento** (considerar tanto a Instituição como o Responsável pelas actividades)	**Classificação (min=1;máx=5)**	5 Centro de Investigação (5), Orientador (5)
Marta Ferreira Mendes de Sousa Rocha **Referência:** SFRH/BD/79928/2011 Bolsa avaliada na área de **Geografia** **Orientador: Pedro Ferraz de Abreu** **Unidade de Investigação : CAPP-TSG**	**Mérito das condições de acolhimento** (considerar tanto a Instituição como o Responsável pelas actividades)	**Classificação (min=1;máx=5)**	5 Centro de Investigação (5), Orientador (5)

One of the greatest challenges faced by a multi-disciplinary research unit such as the e-Planning Lab (LabTec TS), is scientific evaluation. Referee Panels, both national and international, are always organized by specialized scientific domain. To which should we submit for e-Planning evaluation?

The (rare) qualification, for obtaining "top grade" (5 in 5) from juries with international referees, in multiple areas (such as 'Communication Sciences', 'Architecture, Urban planning & Design', 'Political Science', 'Geography') was demonstrated by the Lab team and its coordinator, Prof. Pedro Ferraz de Abreu.

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e-Planning

(e-Planning: Engineering with Hard & Social Sciences)

- The Vision
- The Foundations
- The Laboratory
- **The Build-Up**
- The Know-How
- The Team

e-Planning Consortium

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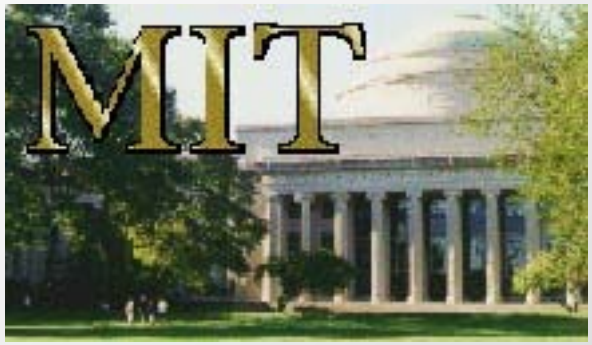
• The Build-Up

e-Planning Lab Team maintains a close collaboration with MIT, USA



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e-Planning Lab Team integrates USA Networks of Excelence with International reach

ICPPIT Task Force, USA session

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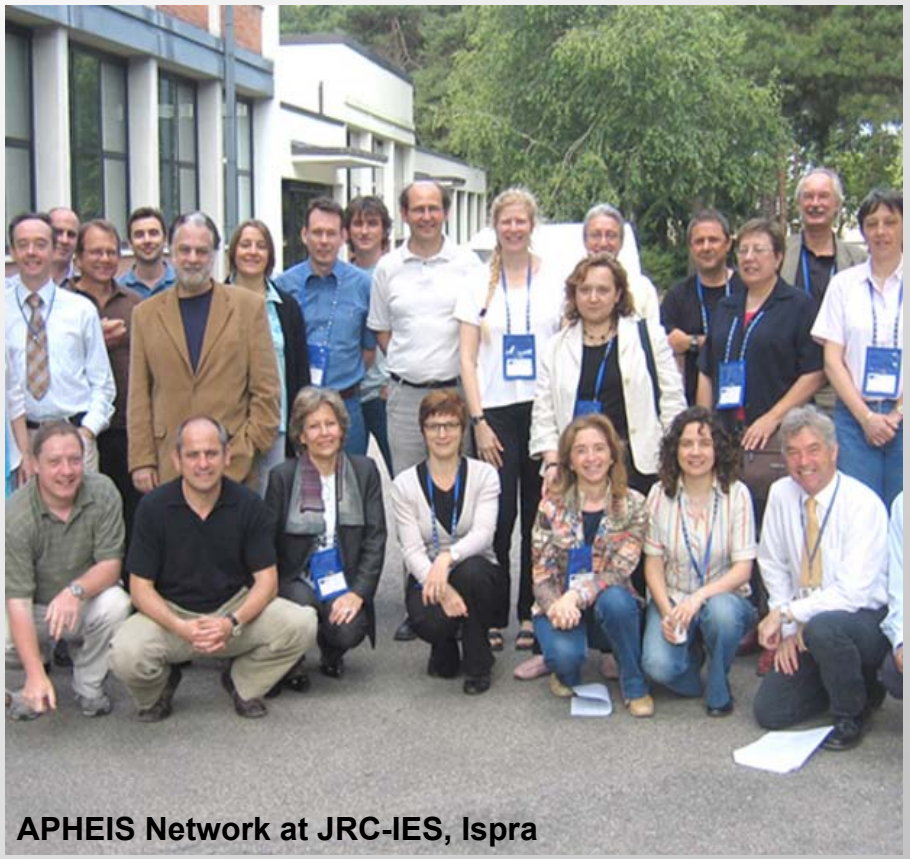
• The Build-Up

e-Planning Lab Team integrates EU European Networks of Excelence



APHEIS Network at JRC-IES, Ispra

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e-Planning Lab Team integrates EU & International e-Planning Networks

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e-Planning Lab Team integrates the debate on ***citizenship***, inside and outside Academia

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LabTec e-Planning FC-UL "Open House" days facilitates inter-departmental interaction

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Between 2009 and 2019, many entities joined *e-Planning Consortium* as strategic partners

Consortium e-Planning

business

AERLIS
SANEST
INTELI
INTERGRAPH / HEXAGON

ong

Médicos do Mundo
Cruz Vermelha
Geota
ABAE - EcoSchools

research centers

CTI - Renato Archer
IBICT

local government

ANAFRE
Juntas de Freguesia
(VFXira, Rio de Mouro)

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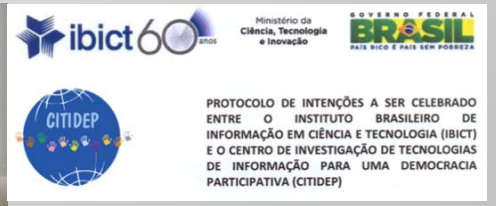
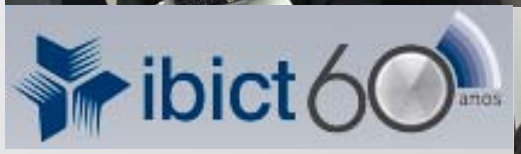
- **The Build-Up**

IBICT - Min. Science of Brasil joining the *e-Planning Consortium* is a strategic progress

Consortium e-Planning





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IBICT - Min. Science of Brasil joining the *e-Planning Consortium* is a strategic progress

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Ministério da **2015** BRASIL

Ciência, Tecnologia e Inovação

De 22 a 24 Junho 2015, o Instituto Brasileiro de Informação em Ciência e Tecnologia (Ibict/MCTI) realiza em Brasília o *Workshop e-Planning Territórios Sustentáveis*.

O encontro busca levantar questões para adaptação à sociedade da informação e do conhecimento, com vistas à melhoria da qualidade de vida para todos com base nos progressos da ciência e da tecnologia. A ideia é identificar novos desafios para o Estado, a sociedade civil e as empresas privadas.

O workshop em Brasilia aborda o e-Planning como ferramenta para abordar os conceitos interligados de sustentabilidade, participação pública, inclusão e coesão, na discussão de "cidades inteligentes". Segundo a organização, trata-se de uma nova área de investigação científica de natureza transdisciplinar, com foco na interação entre as tecnologias da informação e da comunicação (TICs) e o planejamento.

"A agenda e-Planning surgiu no MIT (Massachets Institute of Technology), e desenvolveu-se por via de um Consortium e-Planning, com forte participação de Portugal e agora do Brasil com o recente protocolo CITIDEP-IBICT, no quadro do Consortium e-Planning", explica a diretora do Instituto, Cecília Leite Oliveira. Segundo ela, a cooperação com o CITIDEP– Centro de Investigação de Tecnologias de Informação para uma Democracia Participativa, de Portugal – "abre o caminho para o aprofundamento na identificação e fundamentação de respostas a estas questões".

Um dos resultados esperados dos debates é a composição do Livro Verde – Cidades do Futuro, no âmbito dessa cooperação. O presidente da organização portuguesa, Pedro Ferraz de Abreu, estará presente.

ibict 60 anos — Ministério da Ciência, Tecnologia e Inovação — GOVERNO FEDERAL BRASIL PÁTRIA EDUCADORA — CITIDEP

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CTI/R.Archer - Min. Science of Brasil joining the *e-Planning Consortium* is a strategic progress

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2018

Centro de Tecnologia da Informação Renato Archer

MINISTÉRIO DA CIÊNCIA, TECNOLOGIA, INOVAÇÕES E COMUNICAÇÕES

CENTRO DE TECNOLOGIA DA INFORMAÇÃO RENATO ARCHER

CARTA DE ADESÃO DO CENTRO DE TECNOLOGIA DA INFORMAÇÃO RENATO ARCHER (CTI) AO CONSORTIUM E-PLANNING

Ao Secretariado do Consortium e-Planning,

Vimos por meio desta carta solicitar a adesão do Centro de Tecnologia da Informação Renato Archer (CTI) ao Consortium e-Planning, e autorizar a inclusão do seu logotipo no espaço informal designado como "Consortium e-Planning", uma vez que o CTI se reconhece nos objetivos dessa agenda,

O Centro de Tecnologia da Informação Renato Archer - CTI é uma unidade de pesquisa do Ministério da Ciência, Tecnologia, Inovações e Comunicações (MCTIC), do Brasil. Foi inaugurado em 1982 e, desde então, atua na pesquisa e no desenvolvimento em tecnologia da informação. A intensa interação com o setor acadêmico (por meio de diversas parcerias em pesquisas), e com o setor industrial,

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e-Planning Consortium open to Society

Consortium e-Planning

2020
ANAM Joins CeP

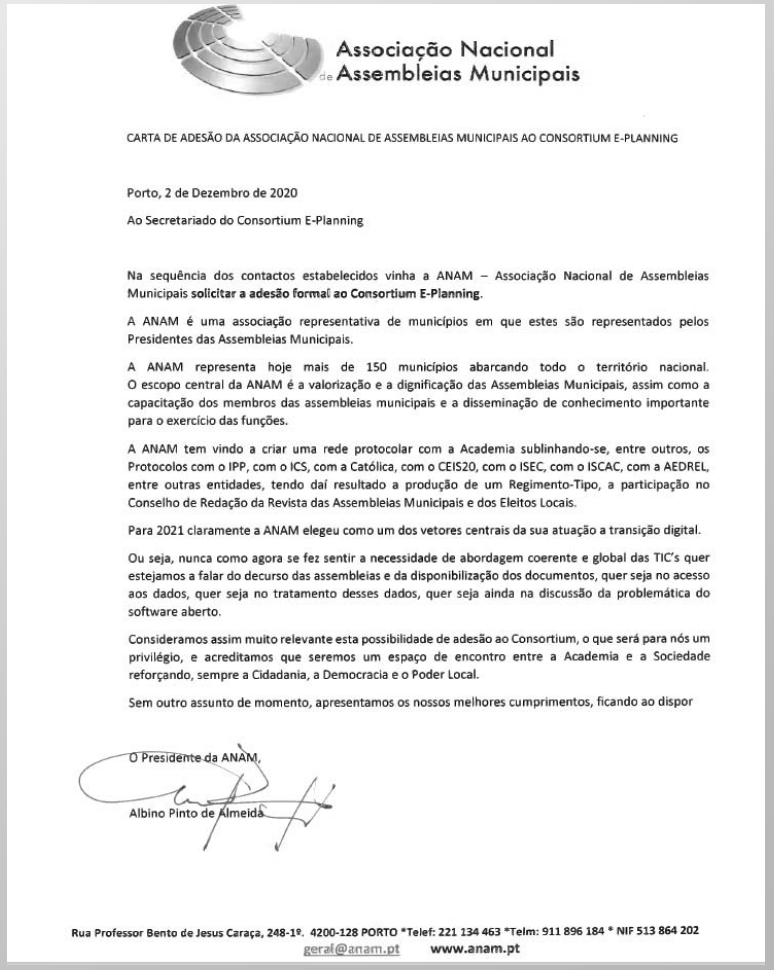
Associação Nacional de Assembleias Municipais

2021
IFSP Joins CeP

INSTITUTO FEDERAL São Paulo

Rarissimas
Joins CeP

RARISSIMAS



Associação Nacional de Assembleias Municipais

CARTA DE ADESÃO DA ASSOCIAÇÃO NACIONAL DE ASSEMBLEIAS MUNICIPAIS AO CONSORTIUM E-PLANNING

Porto, 2 de Dezembro de 2020

Ao Secretariado do Consortium E-Planning

Na sequência dos contactos estabelecidos vinha a ANAM – Associação Nacional de Assembleias Municipais **solicitar a adesão formal ao Consortium E-Planning**.

A ANAM é uma associação representativa de municípios em que estes são representados pelos Presidentes das Assembleias Municipais.

A ANAM representa hoje mais de 150 municípios abarcando todo o território nacional. O escopo central da ANAM é a valorização e a dignificação das Assembleias Municipais, assim como a capacitação dos membros das assembleias municipais e a disseminação de conhecimento importante para o exercício das funções.

A ANAM tem vindo a criar uma rede protocolar com a Academia sublinhando-se, entre outros, os Protocolos com o IPP, com o ICS, com a Católica, com o CEIS20, com o ISEC, com o ISCAC, com a AEDREL, entre outras entidades, tendo daí resultado a produção de um Regimento-Tipo, a participação no Conselho de Redação da Revista das Assembleias Municipais e dos Eleitos Locais.

Para 2021 claramente a ANAM elegeu como um dos vetores centrais da sua atuação a transição digital.

Ou seja, nunca como agora se fez sentir a necessidade de abordagem coerente e global das TIC's quer estejamos a falar do decurso das assembleias e da disponibilização dos documentos, quer seja no acesso aos dados, quer seja no tratamento desses dados, quer seja ainda na discussão da problemática do software aberto.

Consideramos assim muito relevante esta possibilidade de adesão ao Consortium, o que será para nós um privilégio, e acreditamos que seremos um espaço de encontro entre a Academia e a Sociedade reforçando, sempre a Cidadania, a Democracia e o Poder Local.

Sem outro assunto de momento, apresentamos os nossos melhores cumprimentos, ficando ao dispor

O Presidente da ANAM,

Albino Pinto de Almeida

Rua Professor Bento de Jesus Caraça, 248-1º. 4200-128 PORTO *Telef: 221 134 463 *Telm: 911 896 184 * NIF 513 864 202
geral@anam.pt www.anam.pt

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- **The Build-Up**

e-Planning Consortium open to Society

Consortium e-Planning

2021
Protocol
signature
e-Planning
CITIDEP
with ANAM

Associação Nacional de Assembleias Municipais

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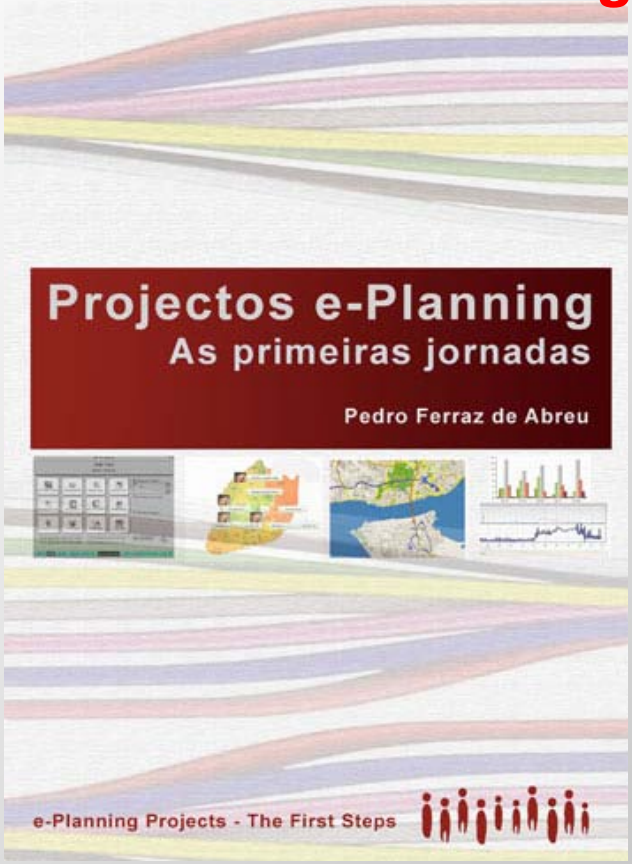
• The Build-Up

e-Planning Lab provided key contributions to the research book "e-Planning Projects"

Jornadas e-Planning



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041 **Mensagem da Ministra do Ambiente e do Ordenamento do Território**
Dulce Álvaro Pássaro

051 **Política de Desenvolvimento Regional na RLVT e o e-Planning**
Teresa Almeida

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• The Build-Up

... and the ***"e-Planning & Ubiquity"*** Book

30 Collaborations Portugal, UK, Belgium, USA, Brazil

C-Press Edition

magalhaes.ramalho@gmail.com

A leitura deste livro transmite aos seus leitores o entusiamo de quem se aventurou na criação de algo novo ... um livro para todos aqueles que procuram colocar os extraordinários avanços observados no domínio das tecnologias da informação e comunicação ao serviço da cidadania e do desenvolvimento sustentável. - João Ferrão, ICS-UL

O conceito de e-Planning é crítico para a garantia da qualidade da produção das políticas públicas assim como do ambiente social e construído. - João Cabral, FA-UL

O e-Planeamento emergiu desta experiência pioneira do Massachusetts Institute of Technology (MIT), em boa parte, vivida pelo autor ... A agenda científica do e-Planeamento é determinada pela necessidade de conjugar os (imparáveis) avanços tecnológicos com os (crescentes) desafios societais, inequivocamente multidisciplinares ... combatendo "guetos" científicos. - José M. Pinto Paixão, FC-UL

Na colectânea que compõe a obra, se incluem oportunidades no espaço da língua portuguesa ... bem como desenvolvimentos com referência à literacia digital e à aprendizagem ao longo da vida... O livro e-Planning e Ubiquidade não deixa também de questionar riscos, perigos e abusos, como sejam o acentuar de desigualdades. - Manuel Assunção, UA

Foi com particular empenho que a Faculdade de Arquitetura integrou o consórcio e-Planning. Se na segunda metade do séc. XX se consolidou na nossa Instituição o campo disciplinar do Urbanismo e posteriormente o de Design, o séc. XXI fica desde já marcado pelo interesse neste novo conhecimento, afinal transversal às suas três áreas de base. - Carlos Dias Coelho, FA-UL

www.e-planning.org · Associação Nacional Assembleias Municipais · CPLP · FCT · CITIDEP · CiAUD · FACULDADE DE ARQUITETURA · U LISBOA · UNIVERSIDADE DE LISBOA · C-Press

communicando scientia emollit nobis

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e-Planning Lab Team is at the core of the ***Journal of e-Planning*** community

Journal of e-Planning

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Journal of e-Planning

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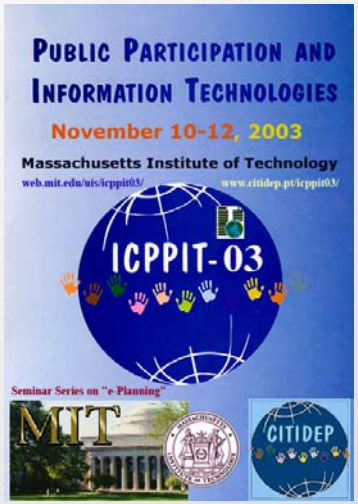

- UL+UTL+UNL+UA , with MIT collaboration >> **Joint Degree Academic Programs**
- CITIDEP + university research centers (EU+USA) >> **LabTec TS campus network**

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	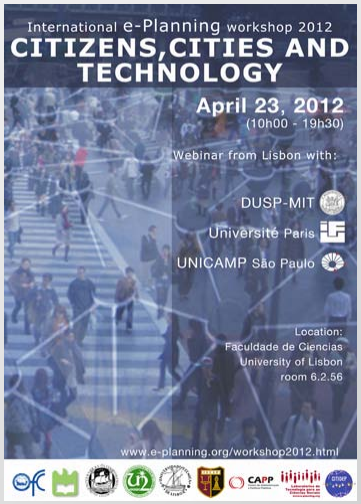			

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2017

2019

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e-Planning transdisciplinary research agenda was presented to the Portuguese Parliament

2019

www.e-planning.org/eplan_ar_cccjd_20190226.html

Pedro Ferraz de Abreu, UA, CITIDEP
João Cabral, FA-UL
José Beirão, FA-UL
José Moreira, CITIDEP

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ASSEMBLEIA DA REPÚBLICA

2021

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e-Planning Consortium

2003 - First *graduate course e-Planning* (MIT), ICPPIT03 (MIT, CITIDEP)

2006 - First e-Planning Consortium (UL, UTL, UNL, UA, UC, CITIDEP, MIT)
for the MIT-Portugal Program

2008 - Consortium UL, UTL, UNL, UA
for the 1st Edition of the Joint PhD Program on e-Planning

2013 - Consortium UL (UL + UTL), UNL, UA
for the 2nd Edition of the Joint PhD Program on e-Planning

2019 - Consortium UL (FA-UL + FC-UL), UNL
for renewed 2nd Edition of the Joint PhD Program on e-Planning
"Re-foundation" of the e-Planning Consortium, open to society
with focus on Portugal, Brasil, CPLP, EU, MIT (USA)
UL,UNL,IPL-ISCAL,MIT,UNICAMP,CITIDEP,CTI,IBICT,LocalVisao,Hexagon,etc.
for the 1st edition of a joint master degree on e-planning (FA-UL)
for joint funding, ex. H2030, (academia, business, autarcies, NGOs)
for research & social intervention projects

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www.e-planning.org

e-Planning

(e-Planning: Engineering with Hard & Social Sciences)

- The Vision
- The Foundations
- The Laboratory
- The Build-Up
- **The Know-How**
- The Team

e-Planning Consortium

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• The Know-How

e-Planning Lab Team built its know-how with the e-Planning community in 10 countries

www.labtec-cs.net

www.e-planning.org

Laboratórios de Tecnologia para as Ciências Sociais
ISCSP-UTL

Laboratórios de Tecnologia e Sociedade
FC-UL

The LabTec TS e-Planning team has a rich portfolio of research and action projects, since 1995, around a core group initially at MIT and CITIDEP, with a sequence of partnerships with research units at different Universities, within an informal e-Planning Consortium. Those projects, and corresponding research, were very different in size, social impact and research domain.

In this section, it is provided a few examples of the know-how acquired through some of these **projects and research lines** in the last 10 years.

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• The Know-How

e-Planning Team has experience in science research within large european (EU) teams

www.citidep.net/people/

EUROPEAN COMMISSION
Community research

People behind PEOPLE

•P. Pérez Ballesta, E. De Saeger, R. Field, A. Baeza, I. Nikolova, R. Connolly, R., N. Cao, M. Gerboles, D. Buzica for the Joint Research Centre

•R. Fernandez-Patier, D. Galán D, S. Garcia Dos Santos, J. Santamaria Ballesteros for Madrid

Pascal DeMulder and Sandrine Bladt for Brussels

• Ana Cabral, Pedro Ferraz de Abreu, Francisco Ferreira, Hugo Tente, Luisa Nogueira for Lisbon

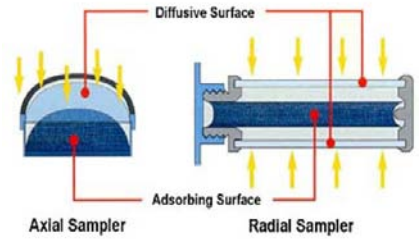
•Matej Gregoric and Peter Otorepec for Ljubljana

•Emilia Niciu for Bucharest

•Martin Fitzpatrick, Anne Marie McCarten and Pat Goodman for Dublin

PEOPLE Project Population Exposure to Air Pollutants in Europe

Pascual Pérez Ballesta
Institute for Environment and Sustainability
DG Joint Research Centre
European Commission



projecto PEOPLE Lisboa

The PEOPLE project (2002-2005) is coordinated by the Joint Research Centre with the aim of assessing the exposure of citizens to air pollutants in different European cities

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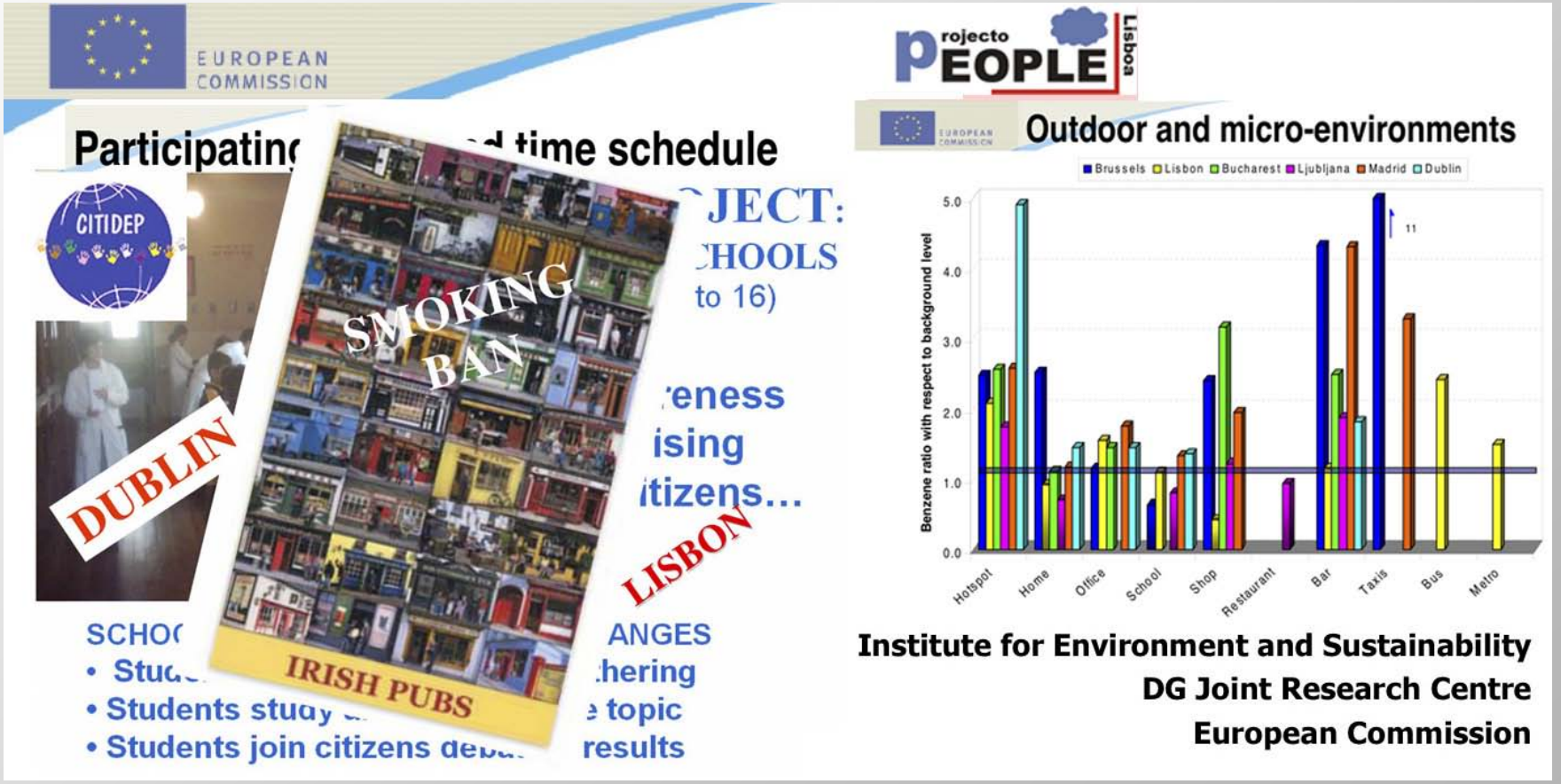
e-Planning Team has experience gathering large scale air quality indicators with citizens

www.citidep.net/people/



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e-Planning Team has experience using advanced technology with kids & schools

www.citidep.pt/act/peoplecitidep.html

Students in Lisbon say goodbye to students in Viana do Castelo

P.E.O.P.L.E. Videoconference and Internet broadcasting II with chat for students from the 2nd and 3rd grade

Activity: " The air exists, although we can't see it"

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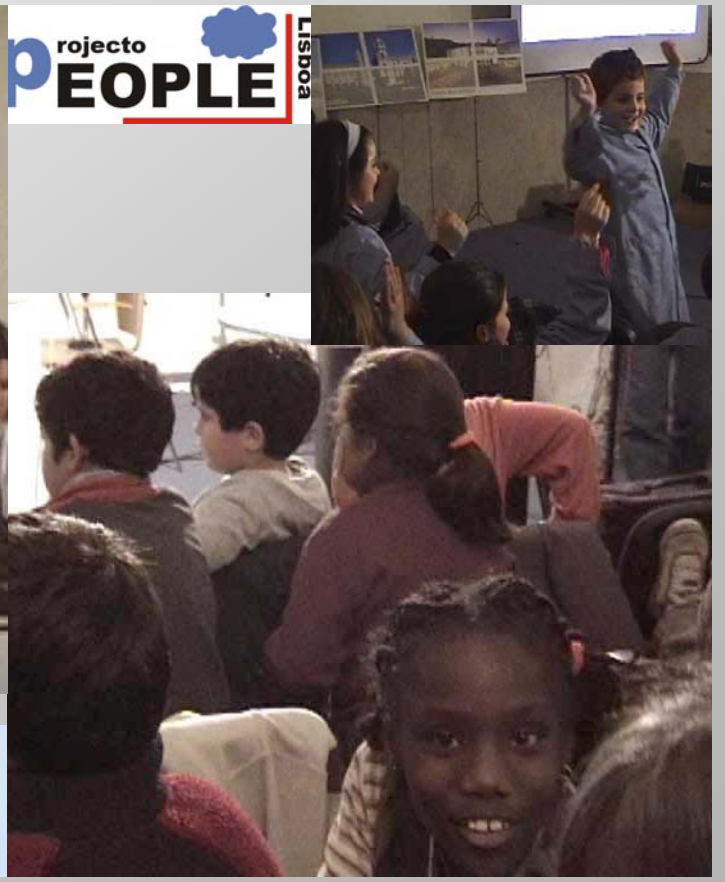

Activity:
“ interaction scientists - k12 students”.

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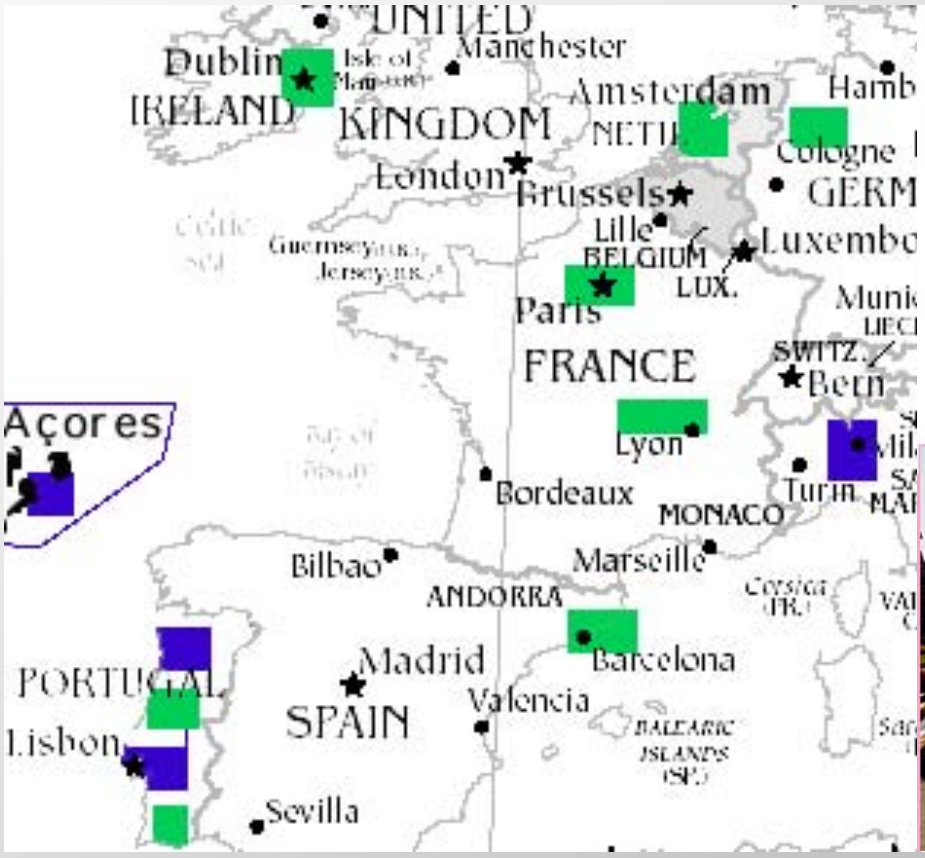
e-Planning Team has experience leading European-wide projects

www.eurolifenet.org



The New York Times
nytimes.com

June 12, 2007

Parents and Health Experts Try to Ease Italy's Pollution

By ELISABETH ROSENTHAL

MILAN — This part of northern Italy is renowned for fashion, food, Fiat. But now it has another, less welcome claim to fame: the cities here have the worst air pollution in Europe.

By mid-May, Milan had already exceeded European Union and World Health Organization limits for particle pollution in the air on 80 days. Last year was bad, too. By the end of March, Milan had 64 such days, Turin had 77, Bologna 51 and Venice 49.

Particulate pollution is tied to heart disease and respiratory ailments like asthma, and poor lung development in children.

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e-Planning Team has experience with mobile sensor participatory science

www.eurolifenet.org

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e-Planning Team has experience with promoting youth participatory science

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with projects with high media impact

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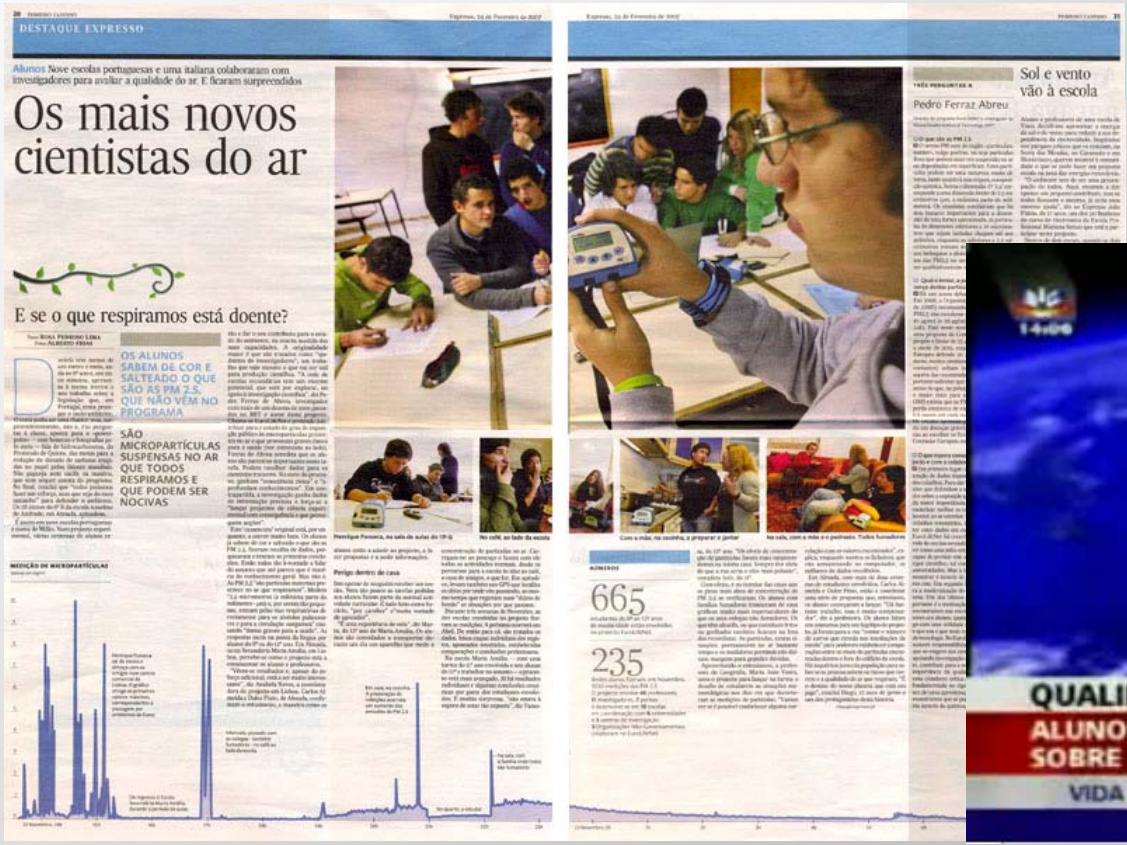
DESTAQUE EXPRESSO

Os mais novos cientistas do ar

E se o que respiramos está doente?

OS ALUNOS SABEM DE COR E SALTEADO O QUE SÃO AS PM 2,5, QUE NÃO VÊM NO PROGRAMA

SÃO MICROPARTÍCULAS SUSPENSAS NO AR QUE TODOS RESPIRAMOS E QUE PODEM SER NOCIVAS

Sol e vento vão à escola

Pedro Ferraz Abreu

665

235

Expresso

(National TV)

SIC

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e-Planning Team has experience
with projects with high media impact

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O PROFESSOR FERRAZ DE ABREU ESTUDA A QUALIDADE DO AR

Respirar os ares do MIT

» A PALAVRA DE ORDEM EM QUALQUER UNIVERSIDADE É 'REDE'. A prová-lo está outro projecto de alcance internacional e de ambição feita à escala europeia, o EUROLIFE NET (*http://www.eurolife-net.eu*). Proposto pelo CITIDEP e de imediato adoptado pelo Centro Comum de Investigação da Comissão Europeia (IES-JRC) para medir a qualidade do ar no Velho Continente, integra em Portugal um grupo dinâmico que cruza pessoas de diversas áreas, sob um denominador comum: cruzar a ciência com a acção. Sempre com o mote do seu grupo de trabalho, o CITIDEP (Centro de Investigação de Tecnologias de Informação para uma Democracia Participativa) em mente, Pedro Ferraz de Abreu define o caminho: **«A ciência sem activismo é frívola, o activismo sem ciência é cego».**

Ferraz de Abreu coordena o EuroLifeNet com base no LabTec ePlanning no Instituto de Ciências Sociais e Políticas (ISCSP) da UTL e traz consigo o espírito da sua *alma mater*, o famoso Massachusetts Institute of Technology (MIT, nos EUA), onde esteve quase 20 anos. Ainda é investigador associado, mas de forma **«intermitente».**

Some-se a esta filosofia – de unir a tecnologia às ciências humanas, de uma forma participativa – a experiência que a equipa de Ferraz de Abreu trazia de outra linha de investigação, activa no terreno, o projecto europeu PEOPLE, que perseguia o mesmo objectivo, avaliar a qualidade do ar que as pessoas respiram.

> A qualidade do ar deixou de ser algo que só preocupa os ambientalistas'
> PEDRO FERRAZ DE ABREU

Mas os problemas eram vários. Por exemplo, como envolver as populações? E, pedindo participação, como avaliar o rigor das observações? Tudo isto tendo em conta **«a explosão de doenças respiratórias em crianças»** verificada nos últimos anos e o aumento de casos de cancro e o surgimento desta doença em idades cada vez mais precoces. **«A qualidade do ar deixou de ser algo que só preocupa ambientalistas»,** nota Ferraz de Abreu.

O grupo de estudo centrou-se nas escolas. Os alunos de vários estabelecimentos de ensino na Europa iriam usar um aparelho para medir as partículas circulantes no ar ao longo do seu dia-a-dia.

O clique deu-se numa conferência onde se decidiam os pormenores técnicos da experiência. Durante uma visita a um laboratório italiano – é em Itália que se localiza o Instituto do Ambiente e Sustentabilidade do JRC, Comissão Europeia – Ferraz de Abreu encontrou um medidor que era **«o último grito em tecnologia».** Estava dado o tiro de partida. Ainda assim, houve problemas, principalmente de estilo: **«algumas raparigas não achavam cool andar com o aparelho ao pescoço».** A solução veio de uma das cidades que integra o projecto, Milão. Feliz coincidência, a cidade é também uma das capitais da moda – nascia uma bolsa capaz de dar *patine* à experiência. As meninas estavam conquistadas.

As únicas partículas que já eram medidas em larga escala (PM 10), podem chegar aos pulmões, enquanto as que o EuroLifeNet mediu (PM 2.5) entram directamente à corrente sanguínea. Ferraz de Abreu orgulha-se da experiência e do empenho das escolas. Em Portugal aderiram estabelecimentos de Viana do Castelo, Ponte de Lima, Açores, Lisboa e Vale do Tejo, Almada, entre outros. Os resultados em Portugal ainda aguardam publi-

ca di Milano

CORRIERE DELLA SERA ■ LUNEDÌ 25 SETTEMBRE 2006

Viaggio tra i veleni

Inquinanti
PM 10.0
PM 2.5

MATTINO

A piedi Piazzale Lagosta-Piazza IV Novembre -Piazza Luigi di Savoia-Piazza Duca d'Aosta
In bus da Piazza D. d'Aosta a San Babila
A piedi da San Babila a Duomo
Metro3 da Duomo a Centrale
A piedi Zona Stazione Centrale
In auto Da Centrale all'Istituto Tumori di via Venezian

TRAFFICO Incrocio via Melchiorre Gioia via Galvani 9.13
FUMO di sigaretta all'aperto 9.37
FERMATA bus-tram Piazza D. d'Aosta 10.14
INTERNO Bus 60 10.26
INTERNO MM3 11.20

Soglia massima di PM10 microgrammi per m³ fissata dalla legge

«Ecco quanto smog si respira a Milano
Allarme polveri anche in casa e in metrò»

Per la prima volta misurata l'aria minuto per minuto con una centralina portatile Pm10 oltre i limiti anche al chiuso. In auto il condizionatore acceso riduce i veleni

La legge è categorica e fissa una soglia per l'aria cattiva. Quella che appesta i polmoni e nuoce alla salute. Passeggiando in città, in un giorno qualsiasi, il limite delle micropolve-

l'aria realmente respirata dai milanesi quando vanno al lavoro, prendono i mezzi pubblici, escono per fare la spesa. Per verificare sul campo il livello dei veleni il *Corriere* ha chie-

spese responsabili, secondo l'Asl, di una morte ogni 4-5 giorni solo a Milano) è fissato in 50 microgrammi per metro cubo d'aria. Ve-

di auto, motorini e autobus che si fermano al semaforo e ripartono: il Pm10 schizza sopra i 250 microgrammi per metro cubo, tornando lentamente a calare man mano che ci si allon-

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e-Planning Team has experience with advanced technology training programs

www.eurolifenet.org

EuroLifeNet Project

Participatory Science

Partnership with JRC-IES

JOINT RESEARCH CENTRE
EUROPEAN COMMISSION
ies Institute for Environment and Sustainability

Training teachers on sophisticated sensors for air quality (PM 2.5)

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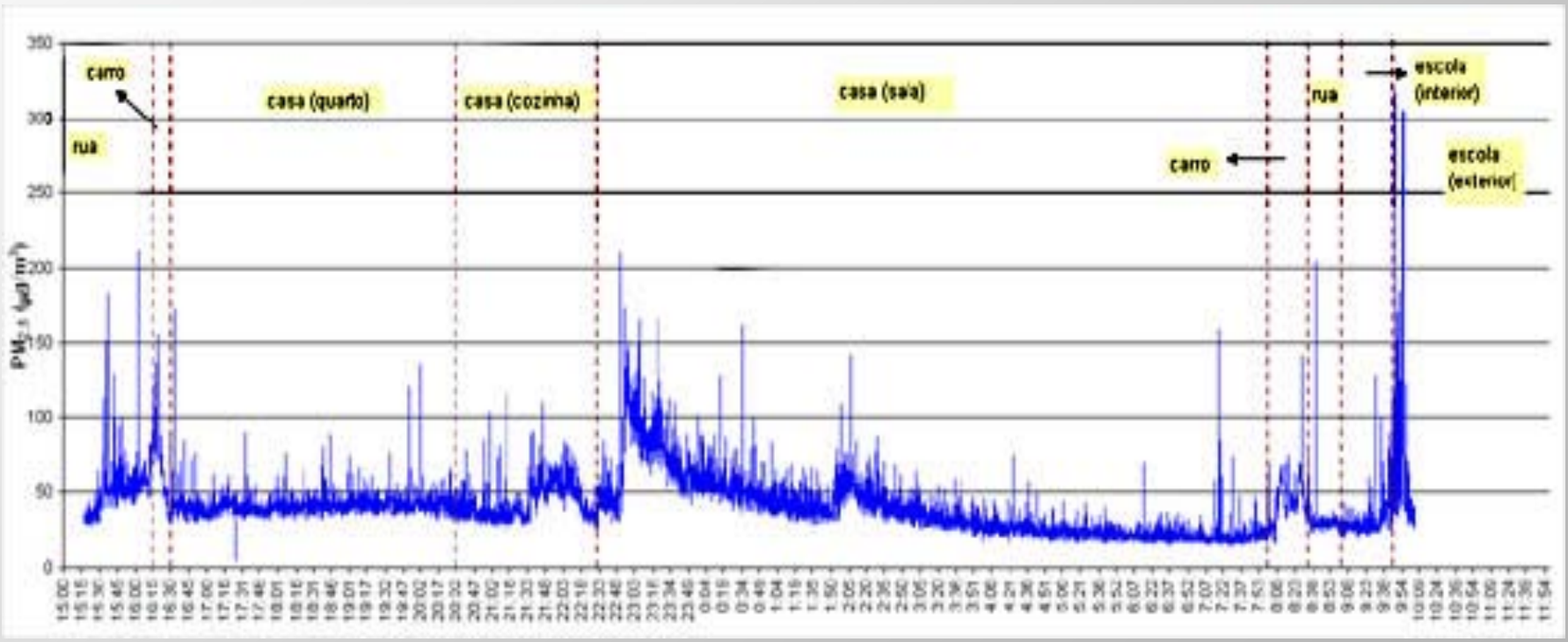
e-Planning Team has experience integrating journaling & sensor data

EuroLifeNet Project

PM 2.5 24h measure from mobile device (sidepak)



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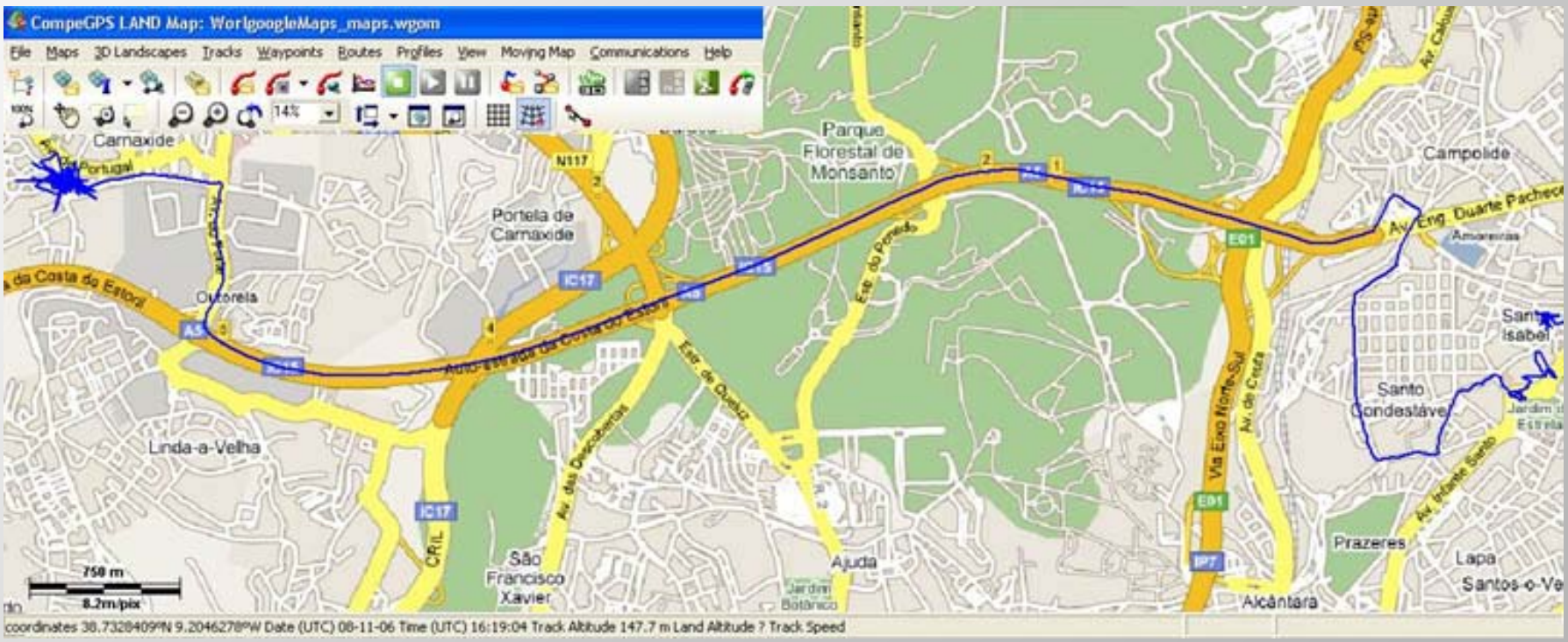
e-Planning Team has experience
to sync GPS data with sensor data

EuroLifeNet Project

24h GPS path w/ PM 2.5 data from mobile sensor



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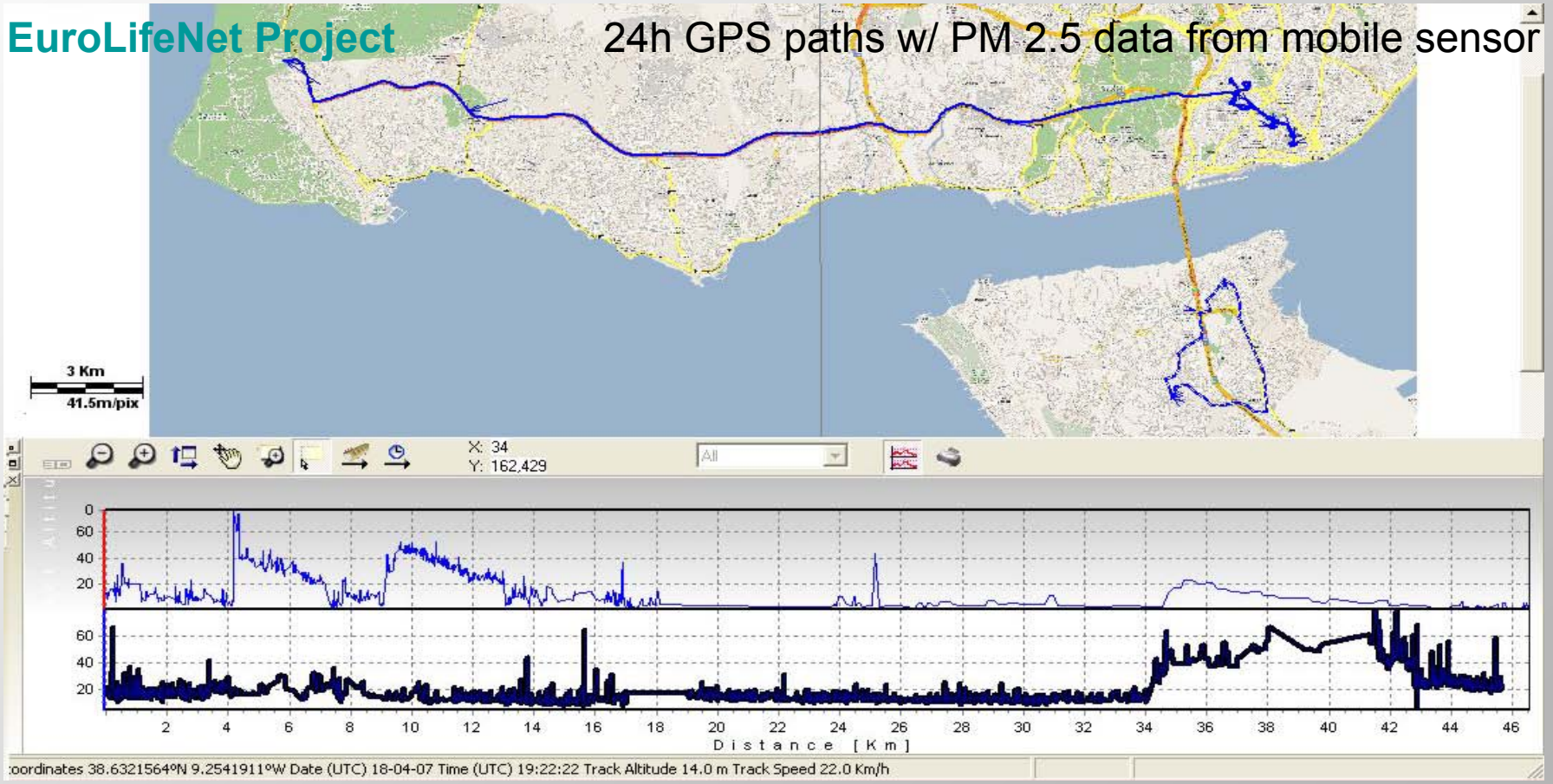
e-Planning Team has experience integrating georeferenced data layers



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e-Planning Team has experience with spatial analysis on mobile sensor data

EuroLifeNet Project

PM 2.5 spatial analysis with mobile device data

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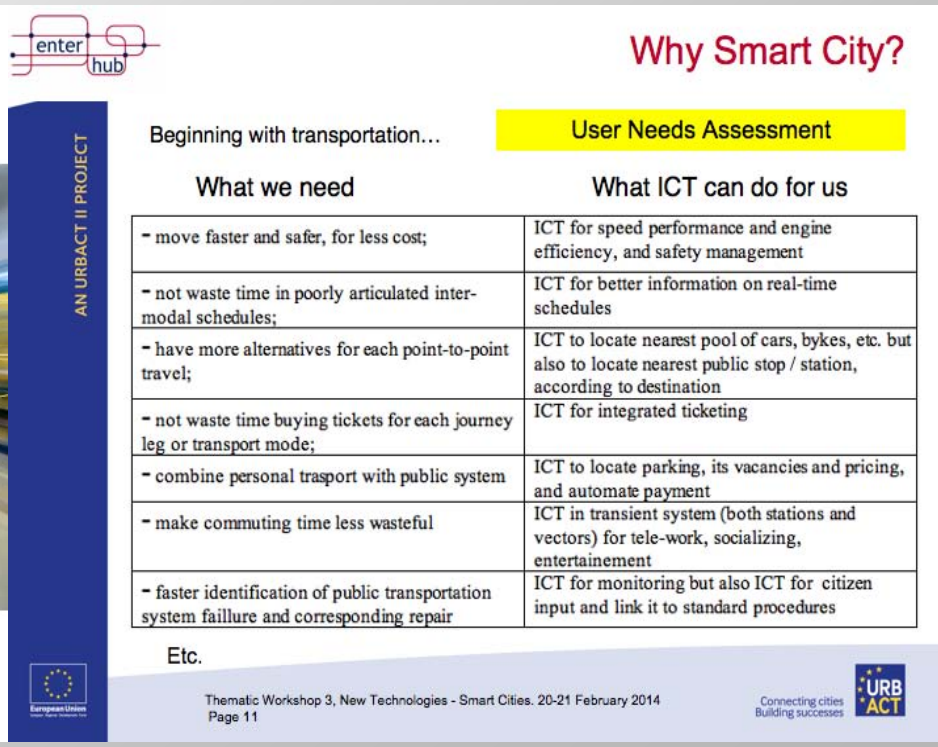
e-Planning Team has certified expertise
in EU on "smart cities, ICT & participation"

urbact.eu/en/projects/metropolitan-governance/enterhub/homepage/



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e-Planning Team wrote the recommendations for EU on "smart cities, ICT & participation"

urbact.eu/en/projects/metropolitan-governance/enterhub/homepage/

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e-Planning Team wrote the recommendations for EU on "smart cities, ICT & participation"

urbact.eu/en/projects/metropolitan-governance/enterhub/homepage/

ENTER. HUB - NEWSLETTER N° 5

10 x 2 Recommendations

10 on SMART TECHNOLOGIES AND CITIES .....

Thematic Expert, Pedro Ferraz De Abreu
Workshop in Lugano, February 2014

regulatory framework

Besides mandatory cooperation to articulate institutions and regulations at local and national level, globalisation is a hard fact in major transport networks, which are the most important context of city hubs, such as ENTER.HUB.

. . . R5. Promote open data standards as opposed to proprietary data and protocols

In many procurement areas in developed countries, it is a well-established practice to mandate for open standards, when public moneys are at stake. Experience shows this is a key factor to avoid the capture of public interest by private interests, in what concerns the smart city industry.

. . . R6. Favour integrated, decentralized, distributed architectures for ICT systems

While centralized systems may in some cases allow for better integration, and be the most adequate, distributed systems

ENTER. HUB - NEWSLETTER N° 5

tend to be more flexible, easy to maintain and to engage users. Decentralized systems require, however, open data standards enforcement for real integration.

. . . R7. Unify local and regional transport with a common ticketing system

Integrated ticketing systems ("one trip - one ticket") are at the core of any rational, integrated, multi-modal system. It also allows for true market- driven efficiencies, facilitating multiple operators without hindering the system. Such unified ticketing systems require tools that give responses to a query (origin-destination) structured for the citizen to use.

. . . An integrated view of a Smart City. . . . . .

. . . R8. Integrate ICT into a global urban strategy before hard investments

One potential good approach is to establish a "Smart City Officer" at the municipality.

. . . R9. Promote territorial cohesion as the base for a true "smartness" in a city

When planning for smart infrastructures, non-urban areas must be accounted for.

. . . R10. Make sure that the new technologies answer to a true need

ICT utilization depends on integrated policy and communication, and the evolution of ICT - related procurements should be followed through a long-term contract.

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e-Planning Team has experience leading use of ICT for large surveys & public debate

europasustentavel.fc.ul.pt

Survey, Debate and Dissemination

The **"EU Project - Sustainability & Efficient Use of Resources:** Survey**, Debate and Dissemination"**, is a project designed and developed by the Faculty of Sciences, University of Lisbon (FCUL), with CITIDEP and ICS-UL.

It is a European Commission initiative, promoted by the European Information Centre Jacques Delors (CIEJD), General Directory for European Affairs - Ministry of Foreign Affairs, responsible for the Information and Communication about the European Union in Portugal.

The opinion study is based on an anonymous and confidential survey by on-line questionnaire.

- (Re)industrialization, Sustainable Development, and the Green Economy;
- Europe 2020 and sustainable growth for efficient economic use of resources and energy sustainability;
- The importance of education for the ocean.

The e-Planning Lab is at the core of the FC-UL and CITIDEP Project Team

The project includes 6 national debates in several cities in Portugal, with webcast and other forms of citizen participation.

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• The Know-How

e-Planning Team works on new frameworks for intelectual property on ICT innovation

Project "ICT challenges to property"

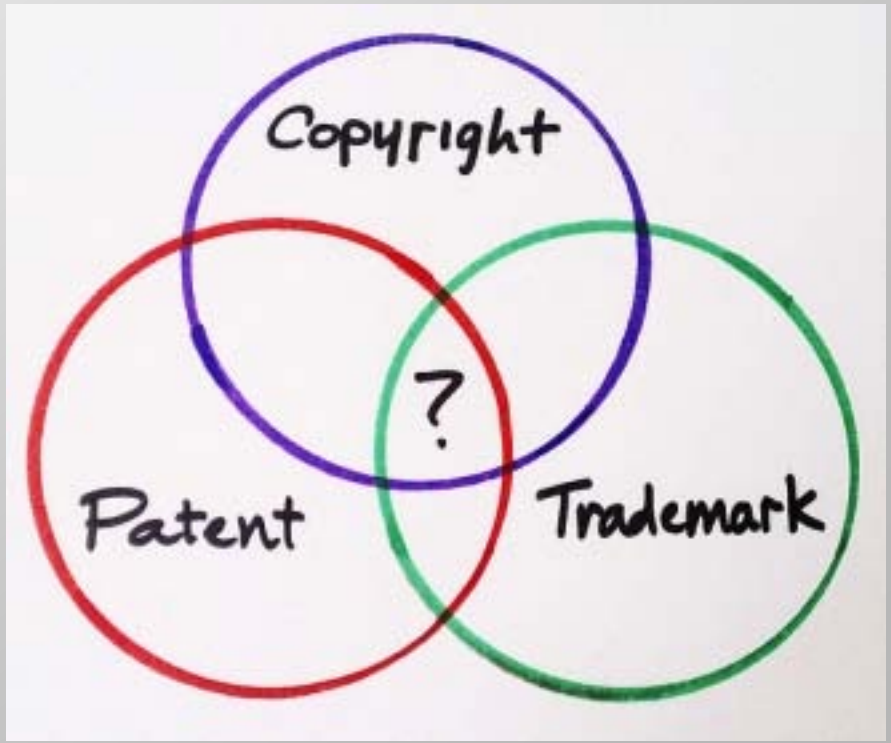
Intellectual property refers to the set of instruments for protection of intellectual creations. Patents are one of the instruments and perhaps the best known, but there are other ways to protect creations of the mind.

Exploring all instruments of protection and establishing protection strategies is an area of growing interest, alongside with, and in the context of, the development of e-cities and virtual society.

To join intellectual property with innovation and measuring innovation through the European innovation indicators is a matter of utmost importance, especially since the allocation of funding in Europe is now dependent on innovation performance.

As a target for this line of research, we are aiming for the development of a new innovation indicator.

Innovation & intelectual property dilemma



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• The Know-How

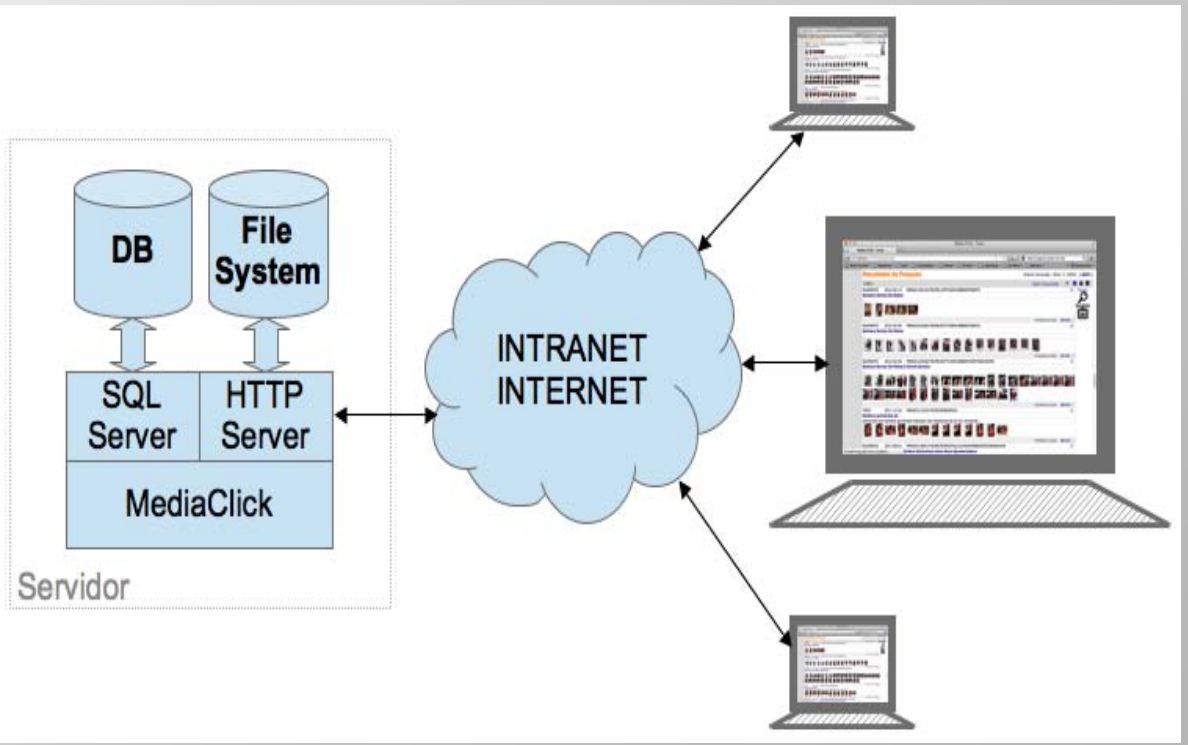
e-Planning Team coded a standard
ISAD multi-archive multimedia system

www.citidep.net/mediaclick/

Multi-Archive Multimedia Cooperative Platform

MediaClick

- Multi-archive system
- Multi-level hierarchic mode
- Efficient indexation
- Sophisticated metadata structure
- ISAD classification norms
- Flexible search criterias
- Based on Standard Tecnologies SQL & HHTP Servers
- Web Browser access



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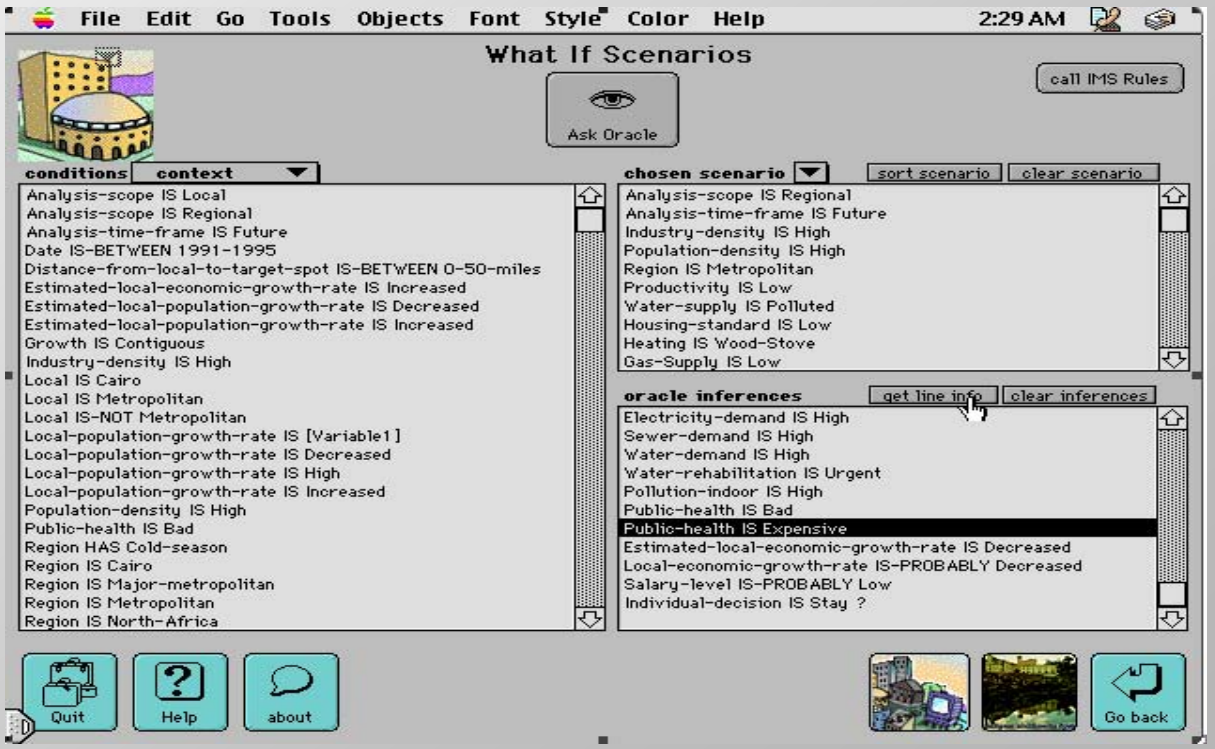
• The Know-How

e-Planning Team develops artificial Intelligence & multimedia systems

www.citidep.net/ims/

Expert multimedia system for urban solid waste

- **Project IMS (Intelligent Multimedia System)**
- *Expert Multimedia Knowledge Base* in support of Public Participation in **Environmental Impact Assessment**



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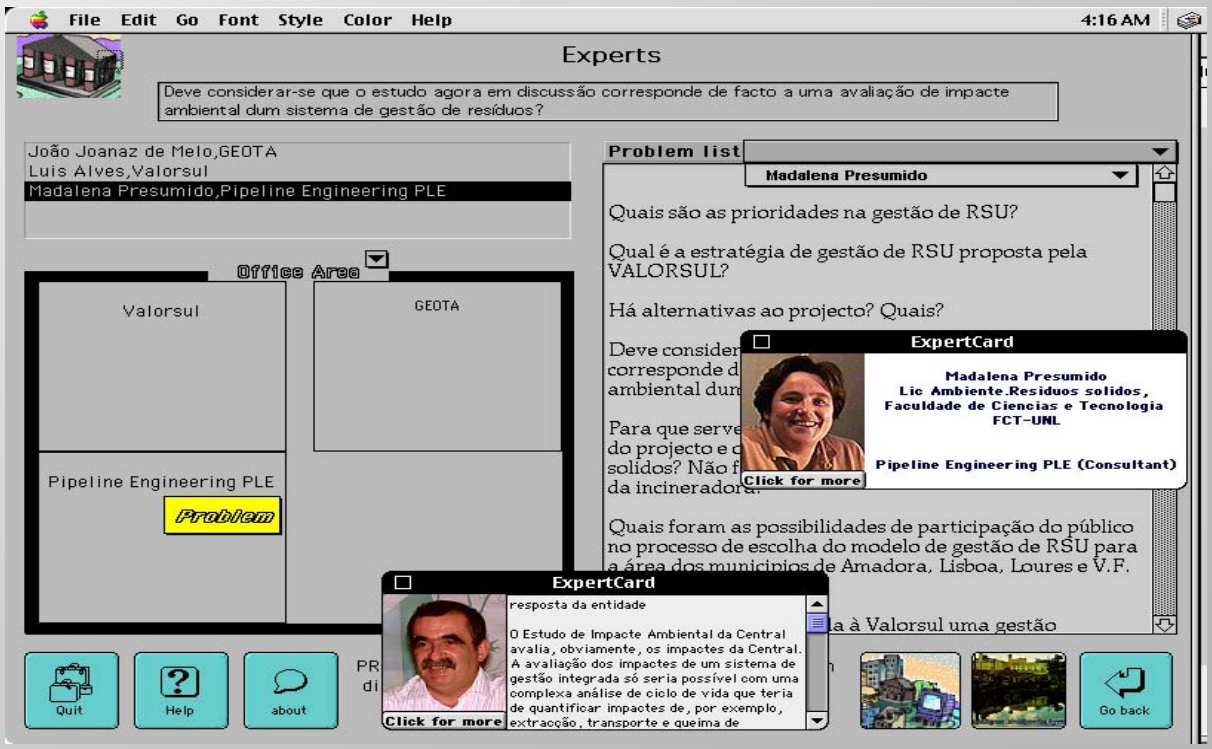
e-Planning Team has experience with
ICT for public participation in decisions

www.citidep.net/ims/

Collaborative multimedia system for urban solid waste

- **Project IMS (Intelligent Multimedia System)**
- *Expert Multimedia Knowledge Base* in support of Public Participation in **Environmental Impact Assessment**



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e-Planning Team has experience with
GIS tools to support citizen initiatives

Collaborative Geographic Information System for Urban Gardens

Problem: complexity on the integration of sustainable practices in the urban context.

Idea: web site to integrate / share knowledge on urban farm/gardens, mediating expert knowledge and practical experience of citizens and communities.

Research Questions:

Can these sites
- increase the number of participants in these initiatives?
- increase the number urban farm / gardens?
- improve the quality of the product?
- prolong the lifetime of each iniciative?

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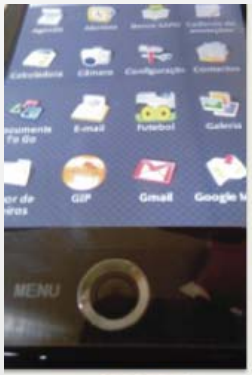
e-Planning Team has experience with mobile participatory city management

GIP - “Gestão Inclusiva Participada”

Participatory municipal management



Junta de freguesia Vila Franca de Xira

Android - smart-phone software for citizen participation, integrated with municipal management tools and procedures

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e-Planning Team has experience with data bases linked to mobile sources

Project "Terapeutas Referência" DB management system Hospital St Maria field therapists

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e-Planning Team has experience with analysis of energy public policies

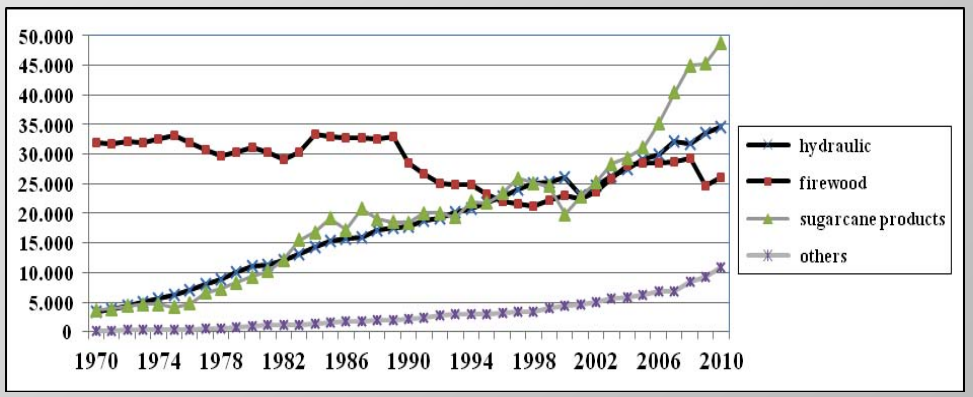
Research "Supporting clean energy entrepreneurs" (Brasil)

policies and incentives

Research to analyze Brazilian energy institutional context in order to understand the public support to clean energy entrepreneurs in the Brazilian State of São Paulo. Especially Federal level incentives to venture creation and competitiveness in the energy sector in the last 10 years.

Region/ Sources	HYDRO			THERMAL			WIND		
	SP	APE	Total	SP	APE	Total	SP	APE	Total
Brazil	**77.318**	**3.385**	**80.703**	**17.548**	**12.141**	**29.689**	**926**	**2**	**928**
North	10.866	29	10.895	3.029	365	3.394			
Northeast	10.776	167	10.943	3.967	1.953	5.920	722	2	724
Southeast	22.661	1.892	24.553	6.034	7.662	13.695	29		29
São Paulo	10.442	542	10.984	1.145	4.714	5.859			
South	22.042	1.143	23.186	3.178	1.006	4.185	175		175
Center-West	10.972	154	11.126	1.340	1.156	2.496			

Installed Capacity of Electric Generation (MW) - Renewables (2011)



Installed Capacity of Electric Generation (Mw) - new renewable sources in Brazil

Few R&D resources used to the clean energy projects, especially considering the potential of Brazil. The amount has increased in the last years.
Focus: in energy efficiency and hybrid vehicles.
Improve: Concept of Sustainable Development; Integration with other policies such as climate; Supply Chain issues; Behavior change.

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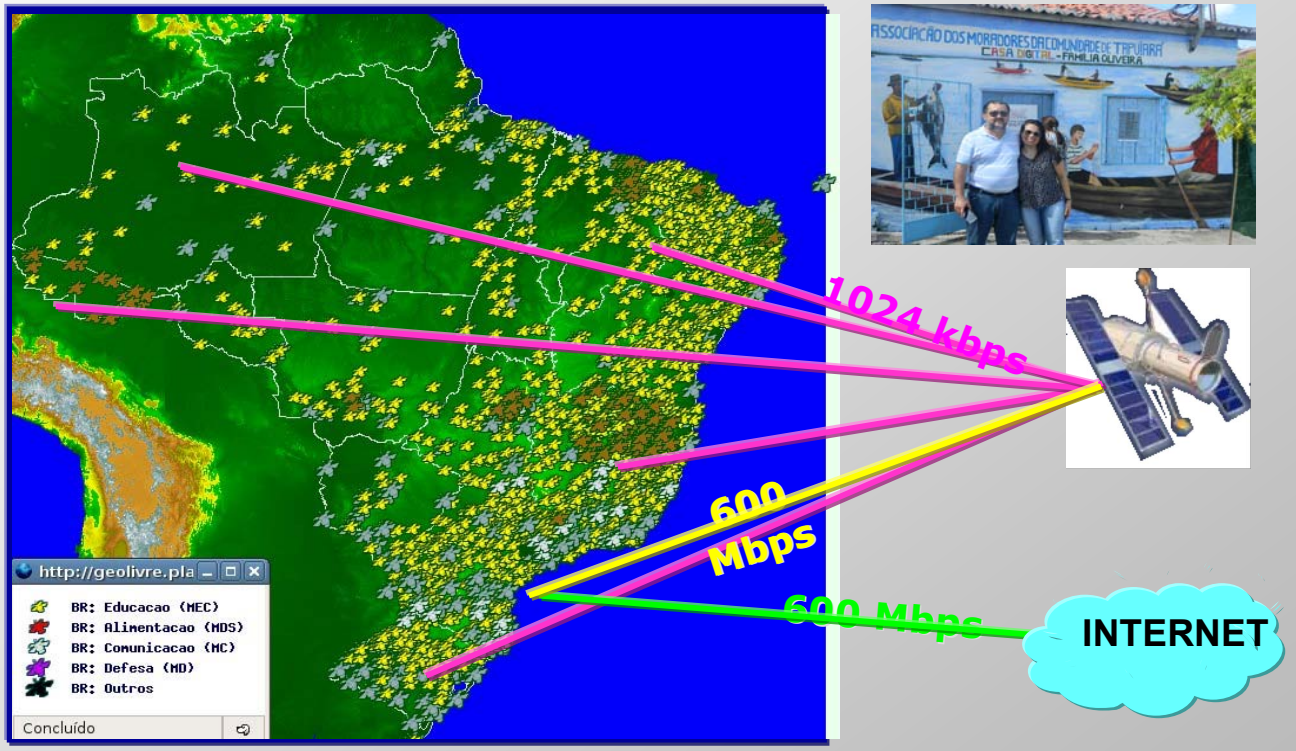
e-Planning Team has experience using satellites for digital inclusion in rural areas

Project “GESAC –Digital Inclusion“ (Brasil)



Coordinated by e-Planning team members, this project originated:

- 13.000 acesses in broad band (12.000 via satellite) for Digital Inclusion in "Telecentros" and rural schools.

- Data Center with applications and services.

- Services for training and "capacity building" for the development of digital skills competences in the target communities, to optimize use and benefit of the new ICT.

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e-Planning Team has experience using satellites for digital inclusion in rural areas

Project "Digital Territories" (Brasil)

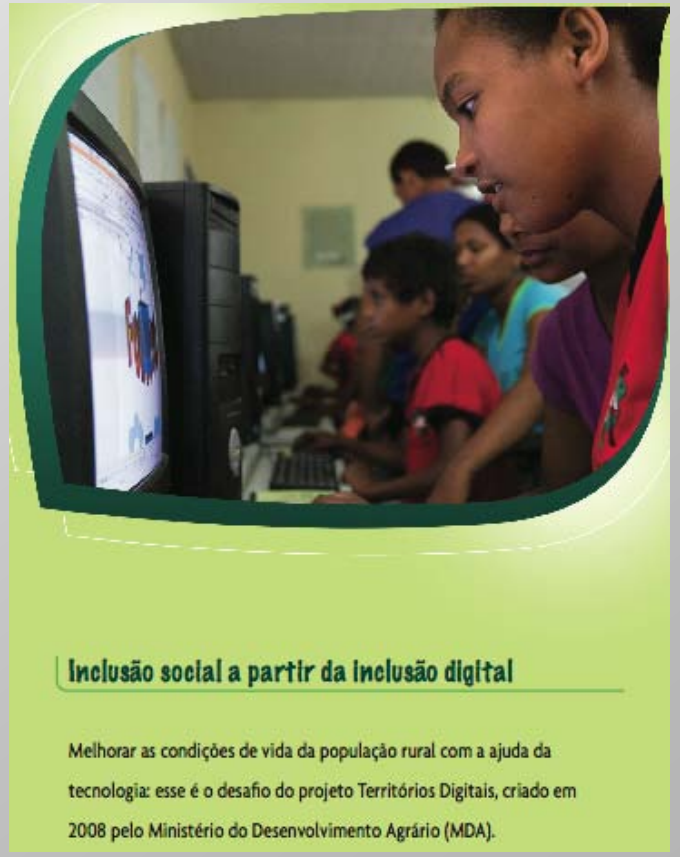
Ministério das Comunicações | nead | Secretaria de Desenvolvimento Territorial | Ministério do Desenvolvimento Agrário | BRASIL

TERRITÓRIOS DIGITAIS

The Digital Territories project installed “digital homes” in rural communities. Using satellite was key to provide access.

Besides access to a new pool of resourecs and information, this allowed also sharing experiences with other rural communities, a major factor in sustainable development in the rural world.

O BRASIL RURAL Conectado



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e-Planning Team has experience researching satellite program impacts in rural areas

Research "Factors of sustainability of Digital Territories" (Brasil)

TERRITÓRIOS DIGITAIS

Given the huge impact of the Ceará (Brasil) project "Territórios Digitais", it is important to study which are the factorsof sustainability, identifying determinants of sucesses and faillures in the experience of rural communities, with the support of local and state institutions, using a researc-and-action methodology.

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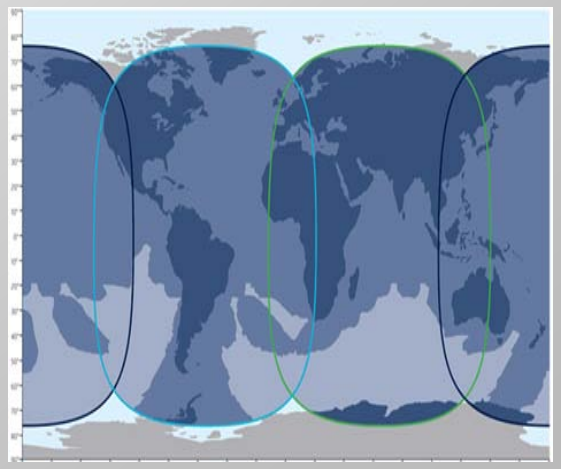
e-Planning Team has experience with new satellite generation and potential impacts

Project “Use of new Ka band satellites for Digital Inclusion within CPLP space”



The new generation of Ka-band satellites (*High Throughput Satellite)*, present a capacity many times superior to the one available in traditional satellites (C and Ku band). With the new technology, data links will have much greater capacity at a lower price compared to current available satellite data services. The reach of the new band can be amplified combining with wireless connections (Wi-Fi) as well with smaller cells from mobile telephones, bringing internet access and mobile applications to the most remote communities withing the CPLP (portuguese speaking countries) community, and enabling new economic and civic activities and initiatives.

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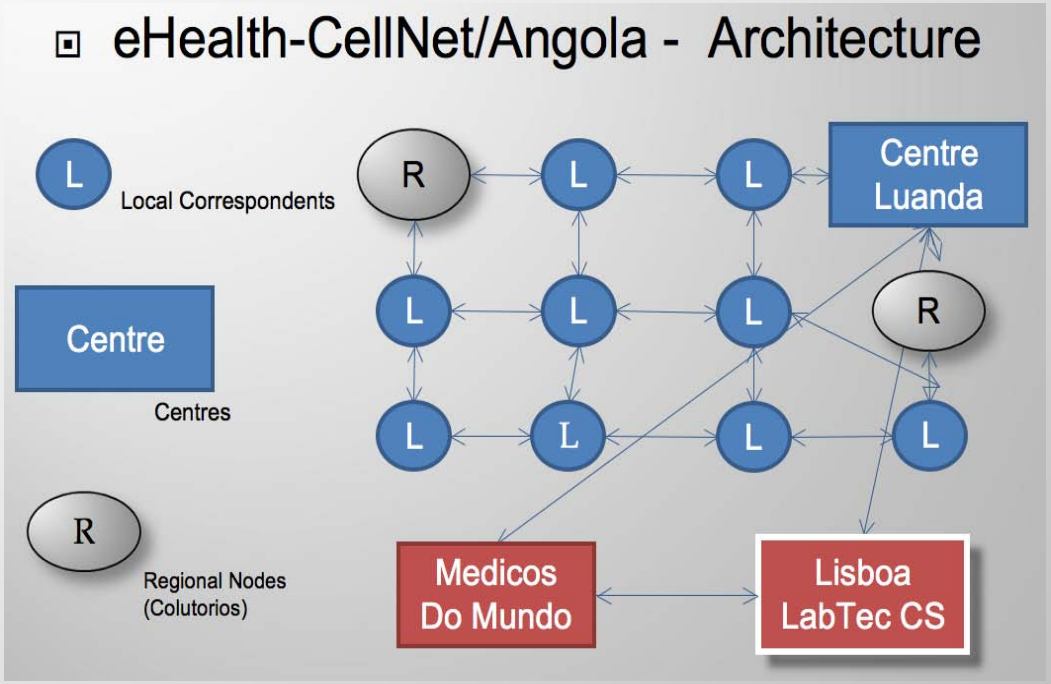
e-Planning Team has experience with mHealth project proposals in Africa

Proposal LabTec TS + MdM: eHealth cellnet/Angola



Using Cell phone+Tablet-based systems for:

- ***Education and awareness***
- ***Remote data collection***
- ***Communication and training for healthcare workers***
- ***Disease and epidemic outbreak tracking***
- ***Diagnostic and treatment support***

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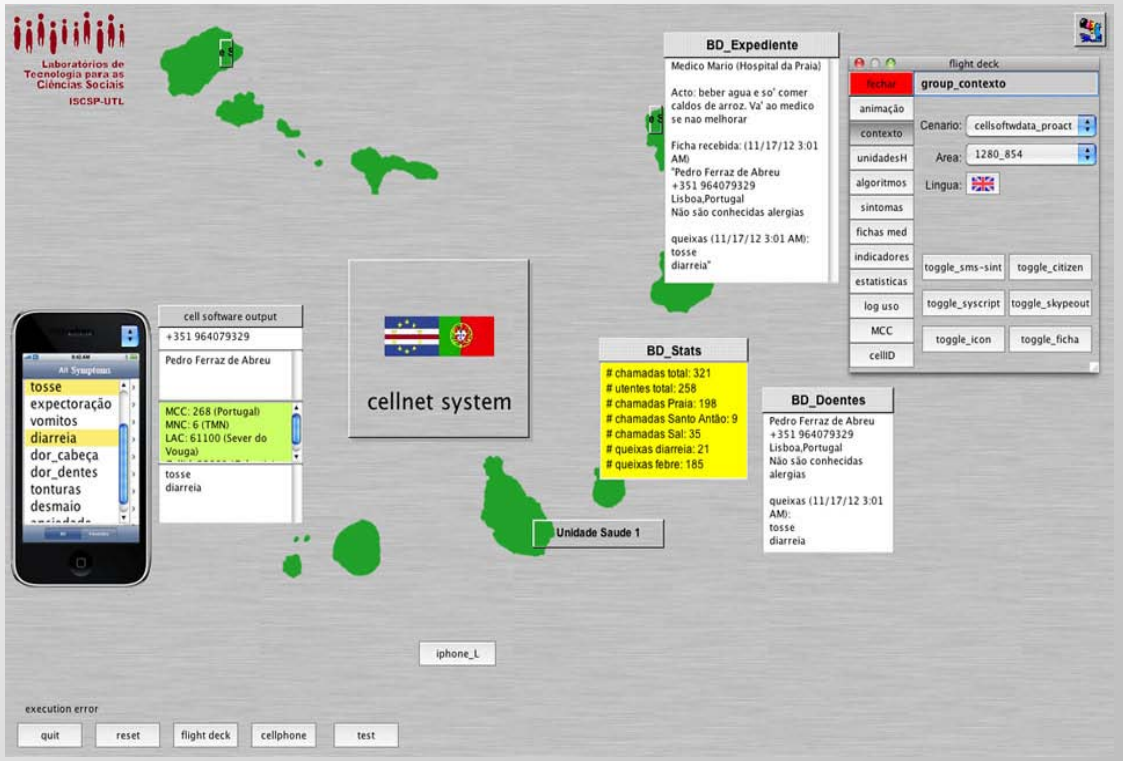
e-Planning Team has experience with mHealth project proposals in Africa

Proposal LabTec TS + MdM: eHealth cellnet/Cabo Verde



Using Cell phone-based / tablet systems for:

- ***Remote health access***
- ***Remote support and advice***
- ***Diagnostic and treatment support***
- ***Automatic data log & collection***
- ***Disease and epidemic outbreak tracking***
- ***Help health planning and resource allocation***

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e-Planning Team has experience with IC technology projects in Africa

Project at MTN Bissau headquarters

Inside MTN switch control room

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e-Planning Team has experience with cooperation projects in Africa

Project at Gabu, Guine

Resource Center "Education Without Frontiers"

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e-Planning Team has experience
training teachers in digital citizenship

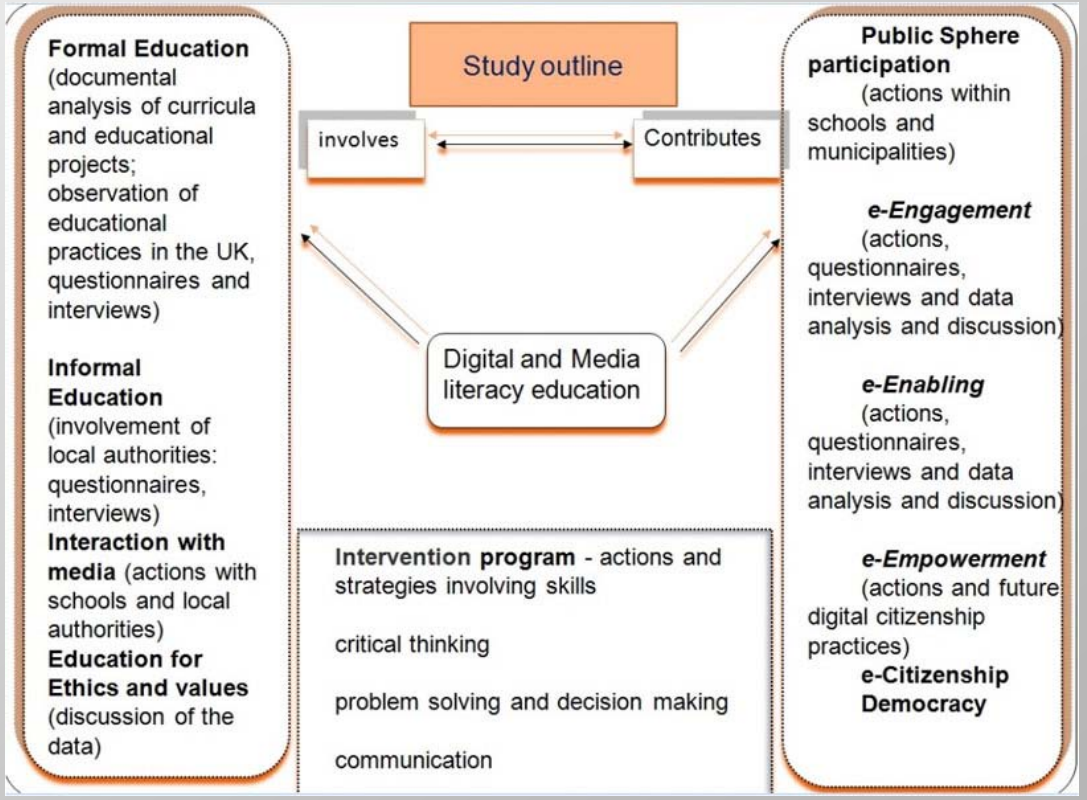
Project “e-citizenship: e-literacy with schools & municipalities”

The sustainable socio-economic development of a country requires a set of skills which enables citizens to act in their community. For this to happen, it is necessary to promote literacy in its various forms.

In educational contexts, it is urgent to promote digital literacy in order to provide young people with the ability to share, to compete and to produce. Thus, abandoning the paradigm of passivity towards the technology that surrounds us.

The e-literacy workshop develops strategies resorting to digital resources which are considered crucial for the development of ICT education.

e-literacy workshop



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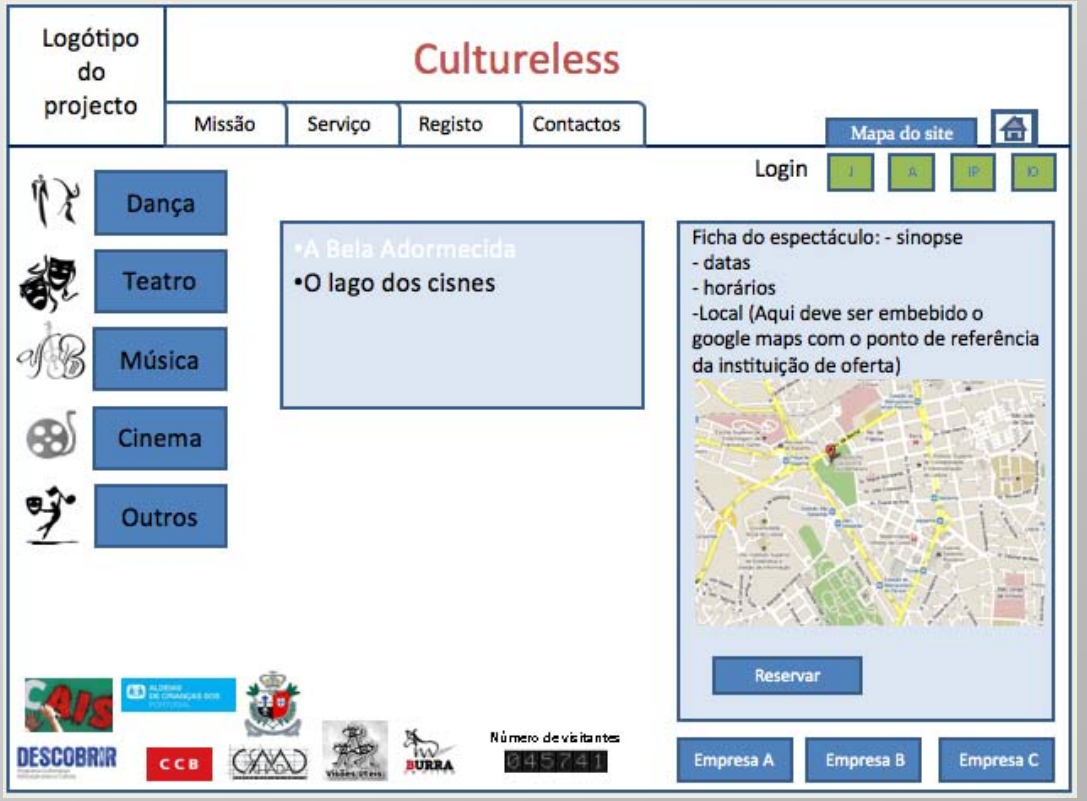
e-Planning Team has experience with ICT to mediate cultural inclusion

Project "Culturless"

Online Platform :

- Feedback forum for the beneficiary
- Best practice sharing forum
- Advertisement tickets for shows, exhibitions, etc;
- Dissemination of theater, dance, music and fine arts workshops;
- Messaging service available for booking activities;
- Mediation services for transportation, meals and lodging for conducting available activities;
- Chat room with video calling for communication and collaboration between different actors.

ICT to mitigate the Cultural Divide



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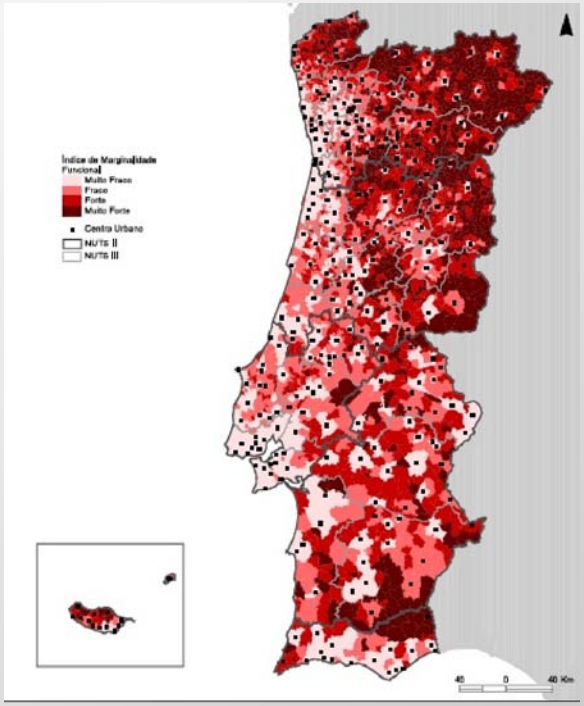
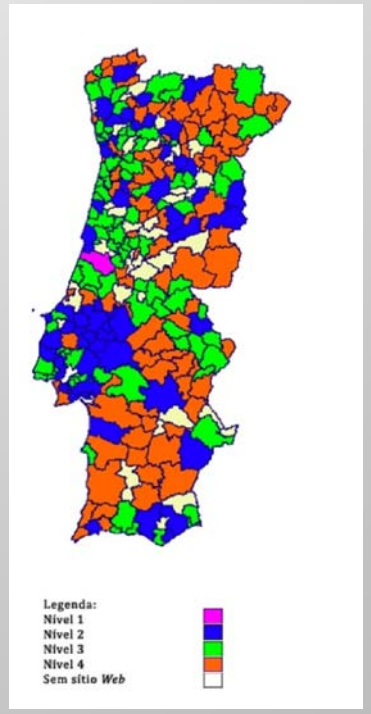
e-Planning Team has experience with analysis of ICT impact in territorial cohesion

Research on “Impact of digital asymmetries in territorial cohesion”

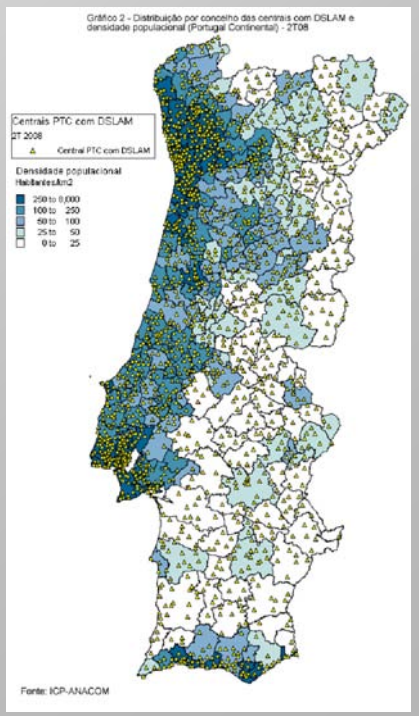
“Marginalidade Funcional” in Portugal



Digital ranking of Municipalities



Broadband in Portugal



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e-Planning Team has experience with the Research of the use of ICT for active ageing

Research "Elder and ICT"

digital inclusion for elder people

Study on the use and perception of ICT (cell phones, computers and Internet) by **elder people** in Lisboa, Portugal.

Mix Research Methods:
- **Survey** to a representative sample of elder people (N=500)
- Ten **interviews** semi-structured

Results:

-The majority of the surveyed use cell phones (72%), but only a minority use computers (13%) and Internet (10%)
- The **non adoption of ICT** derives more from **funcional factors** (digital iliteracy) and **behavour** (lack of interest) than physical (age)
-**Net@**s as promoters of **ICT adoption** by elder people

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e-Planning Team has experience with ICT, urban space & inclusion research

Project "Urban Walls and Virtual Bridges" -

How does the use of internet impact the perception of urban border?

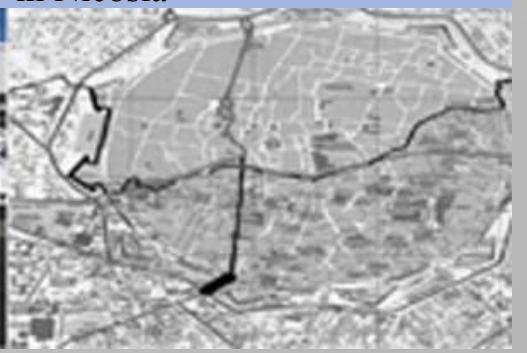
Can ICT be a tool towards inclusion and tolerance in cities with walled borders from deep rooted conflicts?

In Derry/Londonderry the process for removing interface barriers is already started and with that a discussions about how to create the conditions to make it safe enough for the walls to come down.

Divided cities and ICT social networks

In Nicosia new doors are opening along the green line, the last one in 2008. The debate is on.

Springsfiels road of Belfast ----- 'Green line' in Nicosia



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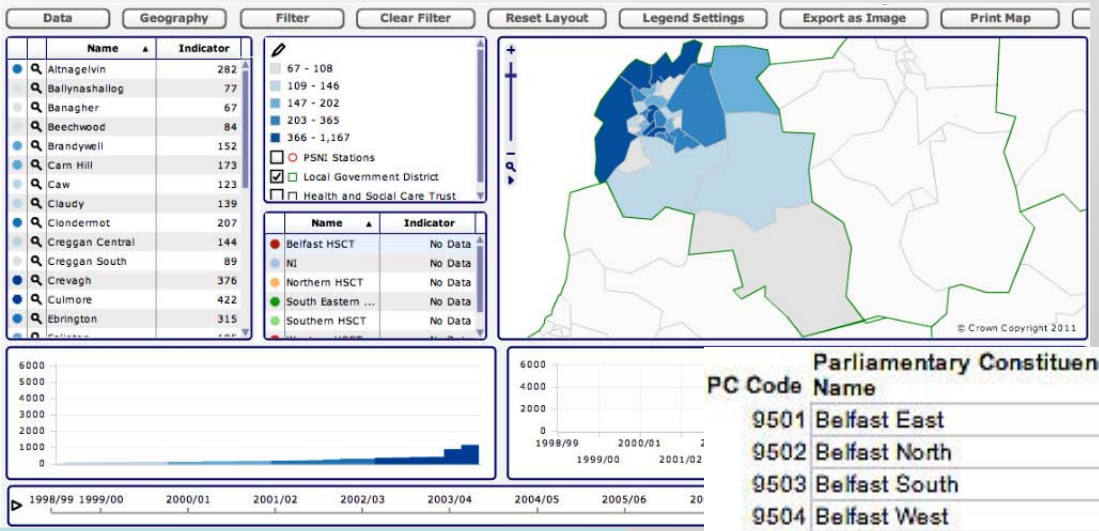
e-Planning Team has experience with
ICT, urban space & inclusion research

Project "Urban Walls and Virtual Bridges" - Divided cities and ICT social networks



Analytical Framework:

- e-Inclusion
- social capital in post-conflict cities (recent or ending conflict process)

Methodology:

- Field Research (survey + interviews)

- Data mining

PC Code	Parliamentary Constituency Name	Sample	Internet Access	No Internet Access
9501	Belfast East	193	0,549222798	0,450777202
9502	Belfast North	201	0,368159204	0,631840796
9503	Belfast South	231	0,662337662	0,337662338
9504	Belfast West	192	0,411458333	0,588541667
9505	East Antrim	201	0,666666667	0,333333333
9506	East Londonderry	257	0,544747082	0,455252918
9507	Fermanagh & South Tyrone	260	0,396153846	0,603846154
9508	Foyle	232	0,512931034	0,487068966
9509	Lagan Valley	247	0,510121457	0,489878543
9510	Mid-Ulster	235	0,519148936	0,480851064
9511	Newry & Armagh	286	0,534965035	0,465034965
9512	North Antrim	290	0,54137931	0,45862069

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e-Planning Team has experience studying social capital related to internet

Project "Social Capital and Internet"

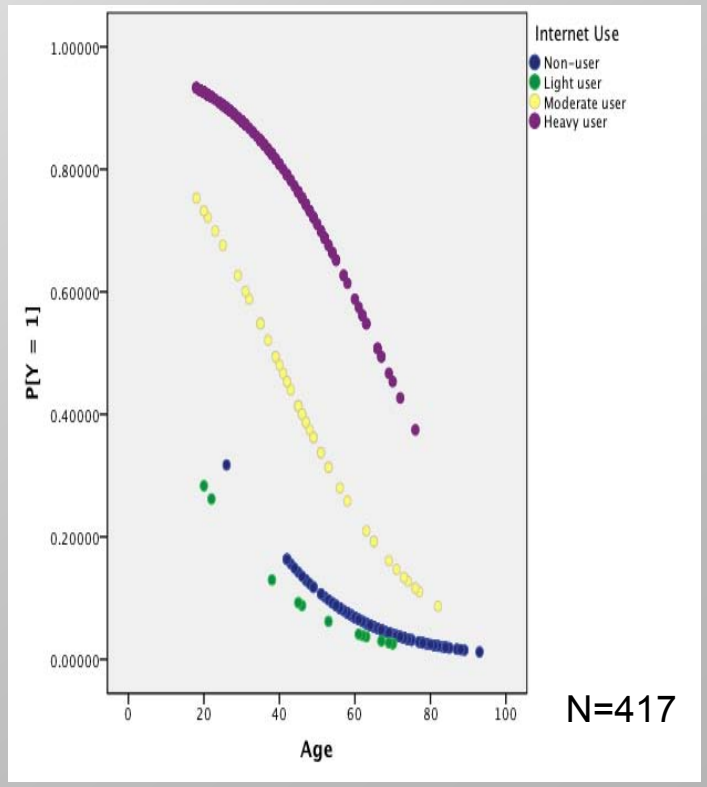
- Social capital (i.e. resources available in social links) as the central analytical construct

Research question: Is there a relationship between social capital and the use of Internet?

Methods:
-Survey to a representative sample of inhabitants of Lisboa (N=417)
- 14 interviews semi-structured

Results:
- Social capital and the use of Internet have a positive association
- Age and social capital have a negative association

Model of logístic regression: social capital, Internet, and age



N=417

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e-Planning Team has experience producing a "Green Book" on ICT and Information Society

Green Book for the Information Society in Portugal

Motivation:

The Information Society may contribute to improve citizen quality of life, facilitating a more open state, inovation in education and training, access to knowledge, the development of new economic activities and increasing job demand with higher professional qualification, among other positive impacts.

Led by APDSI, with many guest contributions, including CITIDEP

Dimensions of "green book" for Portugal:

for Public Policies and Measures

Democraticidade da Sociedade da Informação	O Mercado e a Indústria da Informação
Estado aberto	Implicações Sociais da Sociedade da Informação
O Saber Disponível	Implicações Jurídicas da Sociedade da Informação
A Escola Informada: aprender na Sociedade da Informação	Infraestrutura Nacional de Informação
A Empresa na Sociedade da Informação	A Investigação e Desenvolvimento na Sociedade da Informação
O Emprego na Sociedade da Informação	Others.....

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e-Planning Team has experience producing a "Green Book" on ICT and Digital Inclusion

Green Book for Digital Inclusion and Cohesion in CPLP **for Public Policies and Measures**

Information & Communication Technologies at the Service of Sustainable Development & Social Inclusion within CPLP (Countries with Official Portuguese Language)

With institucional CPLP support

CPLP

1) - Map the Installed ICT capacity

(ICT Infraestructure, Institutional & Regulatory Frameworks, Qualification, etc.)

2) - Identify good practices and lessons learned

3) - Identify special opportunities for better investment returns on inclusion, Cohesion and Sustainable Development

e-Planning Consortium

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e-Planning Team has experience working with human rights international networks

Research “ICT and Human Rigts” -

The conference “Universal Jurisdiction of Human Rights” counted with the participation of the LabTec TS Team

Students from European Union Countries show their concern about peace and human rights in Budapest, Hungary

International Humanitarian Law Course in the International Institute of Humanitarian Law, San Remo, Italy

Social networks HR - digital gap

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e-Planning Team / PhD students: some on-going thesis research

• Creative partnerships – way to encourage intersectoral cooperation with technology.	•**Agata Olbrycht**
• Promoting Local Sustainability through Indicator-based awards: The case of ECO XXI Program	•**Ana Isabel Moiteiro**
• Patterns of intellectual property protection and economic development.	•**Ana Isabel Neves**
• Challenges to ICT regulatory framework: How the Moore Law and market faillures facilitate software inefficiency.	•**António Fernandes**
• e-Prevention: drug prevention and education among young people through ICT.	•**Catarina Nascimento**
• Between urban and virtual walls: the influence of ICTs on divided cities. The case of Belfast.	•**Francesca Savoldi**
• New ICT in Portuguese speaking countries: Advantages from and for CPLP (Community of Portuguese-language Countries).	•**José Manuel Moreira**
• Compromise between free technology and privacy: a matter of technological literacy.	•**Luís Reis Mata**
• The impact of digital asymmetries in territorial cohesion: a new dimension of spatial planning.	•**Marta Rocha**
• Decision Support Tools in the Evaluation of Housing Market	•**Paulo Batista**
• Urban management models and data interpretation. Influence of data on the accuracy of usage profiles and territorial resources.	•**Paulo Oliveira**
• DDOS attacks and the new security framework challenges of the Era of "Hacking".	•**Pedro Graça**
• Sustainability factors in Digital Inclusion: the case of Digital Territories Project in Brasil	•**Rossana Moura**
• e-Literacy, schools & municipalities towards a common goal: e-citizenhip.	•**Tania Fonseca**

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e-Planning Lab is open to faculty teaching doctoral and master e-Planning courses

PhD Program (FC-UL / FA-UL / FCT-UNL / UA)

Pos-Graduation (UL - F. Architecture)

Key Courses at the joint PhD & Pos-grad Program on e-Planning

ULisboa / CITIDEP

- Foundations of e-Planning
- e-Planning Live Laboratory
- Research Methodologies on e-Planning
- e-Government
- e-Health
- Public Participation & Decision Support Systems
- ICT Challenges to the Institutional & Regulatory Framework
- Artificial Intelligence in Planning
- Smart Cities & Digital Citizenship

FA-UL	2019-21
UA	2015-19
FC-UL	2013-14
ISCSP-UTL	2008-12

Coordination:

Pedro Ferraz de Abreu
Prof. Catedrático Conv.
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e-Planning

(e-Planning: Engineering with Hard & Social Sciences)

- The Vision
- The Foundations
- The Laboratory
- The Build-Up
- The Know-How
- **The Team**

e-Planning Consortium

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• The Team

www.e-planning.org www.citidep.net www.labtec-cs.net

e-Planning Team - some faces

30 Authors
e-Planning Book
Portugal, UK,
Belgium, USA,
Brazil (book)
... Italy, France,
Angola, Serbia,
Cabo Verde,
Poland, Spain...

e-Planning Lab Team

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• The Team

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CITIDEP Team - some faces

Portugal, UK, Belgium, USA, Brazil... Argentina, Canada, Holland, ... Italy, France, Mexico, Slovenia, Cabo Verde, Japan, Australia

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e-Planning Consortium
Coordination of Programs and Protocols

e-Planning Consortium Coordination (informal)

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Statistics &
Operational Research
FC-UL

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Environemntal Eng.
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CITIDEP

Pos-Grad Studies Coordinator

José Nuno Beirão
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Computação
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e-Planning College Prop. Coordinator (UL)
(proposal stage)

João Cabral
Urban & Regional Planning
FA-UL

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Muriel Oliveira Gavira
Gestão e
Empreendedorismo
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Programs / Joint Degrees on e-Planning
Science Committees, e-Planning Consortium

Joint e-Planning Science Committee (FC-UL / FCT-UNL / UA / FA-UL) 2012-2021

www.e-planning.org

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www.labtec-cs.net **e-planning.org**

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DG - Doctoral Grant (ePlanning); RG - Research Grant; SMG - Science Management Grant

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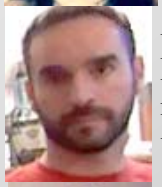

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Pos-Graduation on e-Planning 2019-2020

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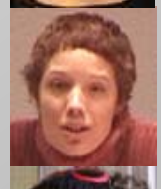

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www.e-planning.org

e-Planning agenda

Joint PhD Program UA+UNL+[UL+UTL] (since 2008)

e-Planning scientific domains	Summary of key objectives
e-Planning knowledge infrastructure (e- infrastructure)	*Mapping of the knowledge society.* *Mapping of the planning knowledge.* *Develop the new ICT infrastructures and strategic frameworks*
e-Planning for the government of the future (e-government)	*More efficient and responsive government, closer to citizens; better enabling role; better services; better adjustment to the challenge and new potential of digital implementation of administrative procedures, beyond raw automation; two-way G2G, G2C, G2B.*
e-Planning for a new governance (e-governance)	*Foster institutional culture towards the common good, more equity and less exclusion; build strategic institutional capacity within globalized world; better institutions; better regulation framework and handling of market failures, aware of the new ICT context; better balance of security & efficiency vs. freedoms, liberty and accountability.*
e-Planning for the city of the future (e-city) and territory	*Build the cities of the future, as sustainable environments with new functionality that breed innovation; foster cities with better quality of life, more attractive and competitive; better spatial planning, promoting social and territorial cohesion, incorporating new structural impacts of ICTs.*
e-Planning for a new citizenship (e-citizenship)	*Enable a better informed and educated citizen, more participative, more critical, more responsible; better balance of technology challenges with ethics & individual freedoms & privacy.*

e-Planning Consortium (informal – since 2006)

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