

**A regional programme supporting
e-gov research**
the case of Emilia-Romagna

Prague, 11th April 2007

Emilia-Romagna at a glance

- Area: 22,120 km²
- Population: 4,000,000
- Per capita GP: 25,733 €
- Provinces: 9
- Municipalities: 341
- Enterprises: 415.000



Emilia-Romagna and e-gov



- E-gov offer*:

- one regional ICT programme, 21% municipalities with own e-gov strategy
- all municipalities but 3 have own web site;
- 14% municipalities offer possibility to pay on line for services
- 79% municipalities offer possibility to download and print forms
- 87% municipalities offer at least one interactive service

- Internet usage*:

- Citizens :37% population over 15 uses internet of which: 55% uses internet to communicate with PA (40% search for info, 23% forms download, 15% send forms, 9% on line payment)
- Enterprises: 40% enterprises use the internet to communicate with PA mostly for authorisation;

The Regional ICT Programme 2002-2005

- KEY WORDS:

- investments in an **efficient public administration** to make the whole region more competitive
- creation of a “**digital territory**” (broadband infrastructure) and **fight digital divide**
- e-gov projects developed on a regional scale to create an **e-gov system**
- **integrate Information Society initiatives with R&D to develop locally (at regional level) new skills and expertise and support the growth of ICT companies in Emilia-Romagna**
- **measure results** with a dedicated benchmark exercise on regional development of information society

The initiative in support to ICT research

- Why such an initiative in a regional ICT programme:
 - to support the growth of research in ICT at a regional level,
 - *to provide the regional public administrations with results to be applied to services and infrastructure and have a real up to date e-gov system,*
 - to make the regional programme on information society a programme shared by the whole community, with a co-investment from public and private sectors in the research projects.

The initiative in support to ICT research (2)

- Expected results:

- favour the creation of innovative products and services for the regional PA and for the productive system;
- consolidate the relationship between research and industrial partners,
- creation of spin off, also as providers/producers of actions described in the ICT programme;
- start projects that could be interesting also on a national/European level.
- **multimedia systems**
- **technologies and systems for broad band**
- **applications for *ambient intelligence***
- **contents and platforms for *e-learning***
- **applications for networked organisations and for enterprises networks.**

**Research
areas**

Budget: 8.5 million € for two years projects

10 projects in a few words

- **SUMMIT** - Multi-media Ubiquitous Services for Technological and Telematic Innovation: Objectives: **creation of a platform of “enabling technologies”**; **development of mobile multimedia services**; **development of a biomedical application**; **creation of an integrated platform for distributed resource sharing for product development, design and testing**. Resulting technologies are to be implemented in diverse sectors such as health, local government, research and retail.
- **InSeBaLa** -Broad Band Integration Services- objectives: **optimisation of the network resources**; **creation of tools for extensive use of Voice over IP and broad-band technologies**; **creation of a shared desk system** by which network technologies can be simultaneously accessed by public authorities and operators in the business and service sectors as long as they belong to the integrated network.

10 projects in a few words

- **SWIMM**- Interactive Mobile Multimodal Web Services: Objectives: designing, developing and testing an **innovative software infrastructure to support interactive and multimodal Web applications that users can access “on-the-move”**
- **KAMER** - Knowledge Management in Ambient Intelligence: main objective is to **create new real and virtual environments in support of “mobile team-working” and for informal collaboration among workers**
- **LAICA** -Ambient Intelligence for a Friendly City: it focuses on the **application of information engineering and communication technologies to develop Ambient Intelligence (Aml) solutions for urban spaces** (units for data acquisition and analysis as well as visual sensors that allow access through an Internet interface or mobile terminals to information on the current status of urban traffic, public parks, public services)

10 projects in a few words

- **ALMA-TWO** - Adaptive Learning Management Assets for Advanced Learning Methodology-driven Architecture:) **creation of a prototype for a distributed intelligence system through the development of an e-learning environment; development of models to support the creation and repeated utilisation of knowledge**
- **GEA**-Transfer of Knowledge about Genetics, Energy and Environment: Objectives: **establish a regional research network on genomics and post-genomics of micro-organisms used in environmental and industrial technologies, create an on-line laboratory for statistics applied to genetics, create a virtual centre for consultancy in genetics.**

10 projects in a few words

- **DIMOTER** - Telematic Services in support of Emilia Romagna Motor-Motorcycle District. **Objective: creation of a Web platform able to provide the motor industry with services related to product quality and quality certification and to supply chain activities.**
- **I-CARE** - Development of an Integrated System for Social and Health Services the project's main aim is the **creation of an information system able to integrate social and health services, particularly those relating to home assistance.** The objective will be achieved through the **development of a technological platform to support identification, planning and management of social services using wireless technology, the Web and the instruments made available by the regional broad-band network.**
- **STIL** - ICT Tools for Logistics Operations within Enterprise Networks objectives: **developing a centre of excellence for industrial research in the field of ICT-based logistic systems for enterprises operating in Emilia-Romagna.** STIL represents a first step towards the creation of a "Virtual Logistic Hub" (VLH)

An overview

Grafico n. 1 - N projects by theme

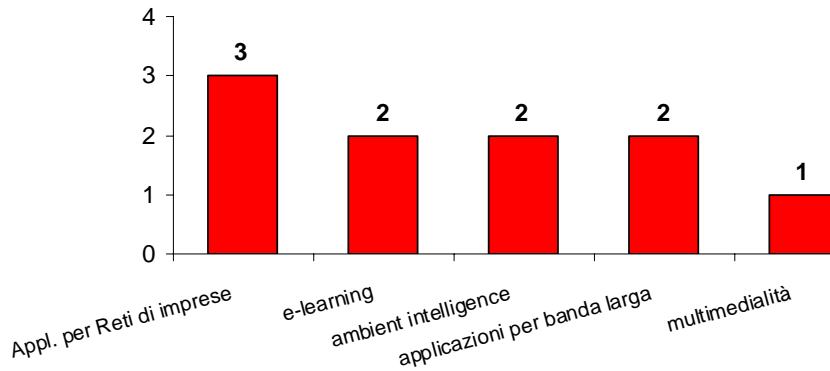


Grafico n. 3 - Partners

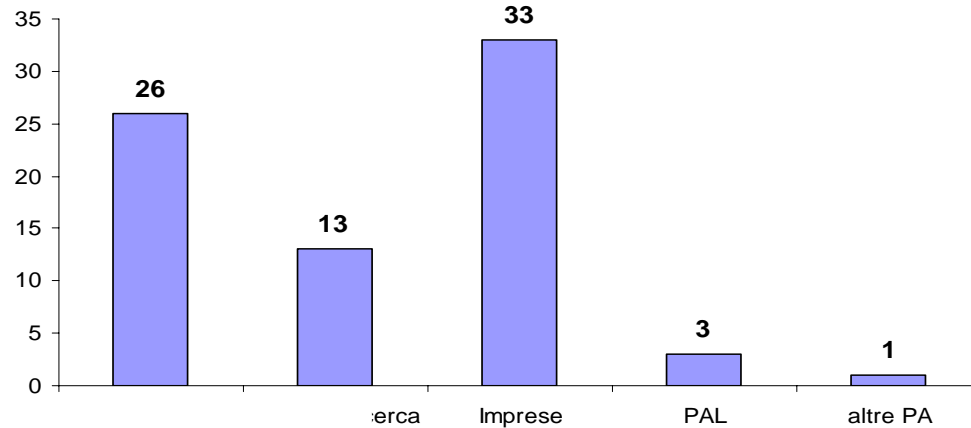
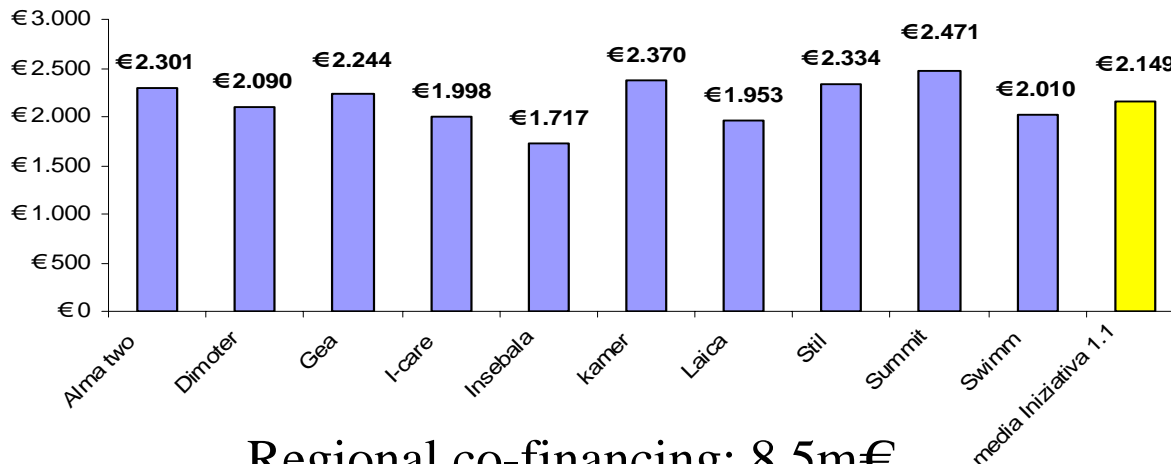


Grafico n. 10 -Budget by project



Regional co-financing: 8.5m€

Some results

- 8 projects ended by the end on 2007 and
 - more than 50 demonstrators
 - exploitation plans and already some products ready for the market
 - projects are integrating into clusters (one more focused on infrastrucutre, one more on services) to be able to enter the regional network of laboratories (thematic competence centres focused more on implementation than on research)

Research results and the new Regional ICT programme

- NOW new Regional ICT programme (2007-2009) and implementation of some of the projects' results

- Key words:

- the citizens at the centre
- e-adoption

Interoperability; multichannel delivery; mobility and multimodal approach

Insebala

Swim

Summit

Integration of identification tools, semantic web, e-learning for the PA employees and for e-inclusion, supporting the use of ICT in enterprises, new services

Swim

Summit

Alma two

Stil

Dimoter

- broadband and convergence

Digital divide reduction, guaranteed communication level, convergence as integrated network of regional communication resources

Insebala

.....but also

Take up of research results from regional PAs

-promotion towards other PAs in the regional territory and already some uses developed:
 - from prototype to implemented application in the area of **convergence** between the broad band network and the regional mobile radio network
 - consolidation of prototype **platform for multichannel /multimodal** services, adopted by the provincial government (*area of user centric approach*)

What next

- Need for consolidation
 - e-gov still is not a diffused reality, its influence in favour of a transformative government is very limited, use of on line services is scarce
 - it will not improve - at least in the Italian scenario - if not approached by systems of administrations (single municipalities on their own cannot produce this innovation)
 - integration of Pas needs also integrated approach in research (not just a matter of ICT)
 - need for competence centres that can provide this integration and promote research that has a strong link with actual administrations

Research areas to be explored

- Interoperability, networked government, convergence (*attention to support the take up*);
- e-gov for all (**e-inclusion**, mobile government, **design** of “user centric” services *starting from users needs*) -
- e-gov for new government: research in the **cross sector dimension** (*a leverage for Pas reorganisation/optimisation*), **impact** evaluation, **analysis of the organisational sphere - integration of organisation and ict research** (*as a new government pattern*), e-democracy (*as a new model for participation*).

*What is strongly needed is **integration** among technological, sociological and administrative research area*

Thank you!

Sandra Lotti

Regione Emilia-Romagna

progeur@regione.emilia-romagna.it