

First to know

“FIRST is an ICT project supported under the EU’s 7th R&D Framework Programme (FP7)”

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First is a Support Action funded by the European Commission Seventh Framework Programme in order to foster International Cooperation in the areas of Future Internet and ICT Components and systems between Europe and Latin America.

First



European Commission
Information Society and Media



Antonio Alfaro
project First Coordinator

Welcome to “First to know”.

First to know is a periodic publication that will present news, events and insights on collaboration between Europe and Latin America in the field of Future Internet, ICT components and systems, as well as updates on the evolution of Latin American Technology Platforms, and their links with European constituencies (Meaning European Technology Platforms, Future Internet Assembly, Future Internet, Forum, National Member States Initiatives, and many others...).

We hope this newsletter will be useful both for European and Latin American researchers, contributing to establish a more frequent and fluent channel of communication and cooperation between them.

FIRST is a Support Action funded by the European Commission Seventh Framework Programme in order to foster International Cooperation between Europe and Latin America in the areas of Future Internet, ICT Components and systems.

The project aims to extend the concept of European Technology Platforms (ETPs) to Latin America, by gathering strategic stakeholders from the different sectors included in the Future Internet, ICT Components and systems fields into one national ICT Technology Platform per country in Argentina, Brazil, Chile, Colombia and Mexico.

ETPs and JTIs initially involved in preliminary studies for the launch of Latin American

Technology Platforms are:

Future Internet

eMobility

ISI

NEM

NESSI

Mobile and Wireless Communications

Satellite Communications

Networked Electronic Media

Software and systems

ICT Components

Photonics 21

ENIAC

Photonics

Nanoelectronics

Systems

EPoSS

Artemis

Smart Systems Integration

Embedded Intelligence and Systems

The importance of Future Internet, and corresponding research activities, has been already recognised at worldwide level, and it is possible to mention quite well-known research initiatives in USA, Japan, Korea or China. Also internally in Europe, several national initiatives on Future Internet have appeared.

The Commission has also recognised the importance of the Future Internet through specific communications such as “COM (2008) 594; ‘Communication on future networks and the internet”, and though the support to R&D projects. Europe’s current research efforts on the Future Internet account for more than 90 projects, involving more than 500 European entities with total EU funding of around €400M, which will

be complemented by new projects coming from past call5 of FP7-ICT. These figures show the clear commitment and support provided by the European Commission to research activities in the field of Future Internet. All these projects are clustered in the Future Internet Assembly (FIA) in order to maximize synergies and work on cross-domain issues.

Considering the success reached by ETPs in Europe in the promotion of R&D activities gathering together entities with similar and complementary internets, it was considered that the concept of Technology Platforms could be an excellent tool for further improving the already good cooperation established between European and Latin American researchers.

We trust that FIRST will succeed in encouraging our valued Latin American partners to actively contribute to high quality project proposals in the field of Future Internet, and Latin American Technology Platforms will bring also additional mutual benefits to future cooperation.

I invite you to follow the FIRST activities and become an active player in the creation of Latin American Technology Platforms through our public events and on our website: www.latin-american-technology-platforms.eu

Be the FIRST in the Future Internet world and join Latin American Technology Platforms!

First in Colombia

Laying the foundations for Future Internet's development in the country

As a member of the Project FIRST in Colombia, CINTEL has scheduled the celebration of two events in the course of 2010, to present to the national community the potential of projects within the FP7, as well as to promote the participation of industry, academy and government entities in the Latin American Technology Platforms - LATPs.

Events in Colombia seek to convoke stakeholders in order to identify topics of interest, to develop strategic research agendas and participate in calls for international projects within the FP7, related to Future Internet networks, contents and services, as well as ICT components and systems.

FIRST EVENT

The first event of FIRST in Colombia will be oriented to introduce the concept of Technology Platforms in Latin America, objectives, activities and expected results of the project, within the R&D community of the ICT field in Colombia, including industry, academy and government entities.

Taking advantage of the national context of presidential elections, the closure of the event may include a debate with the presidential candidates, in which proposals on science and technology,



President Alvaro Uribe during Andicom 2009 closure

in order to contribute to innovation and development of the country will be presented.

This event will be held in conjunction with MALOKA, a corporation that contributes to build a knowledge-based society and learning through the design of strategies for social appropriation of science, technology and innovation.

The event will take place at the premises of MALOKA in Bogota, Colombia, on May 6, 2010 starting 9:00 am. FIRST Project was presented for the first time in Mexico in the international program



ANDICOM 2010 – INTERNATIONAL ICT CONGRESS – NETWORKS, SERVICES AND CONTENT: Business of the next decade in Latin America

International ICT Congress ANDICOM connects you with leaders and decision makers to transform knowledge and ideas into action. It is an annual project of the Telecommunications Research Center of Colombia -CINTEL- unique in the region through its format as an Academic Congress with the support of a trade show and an excellent environment to promote business. The event gathers every year, around 2.300 participants including key industry figures at the enterprise, government and academia level in order to generate significant synergies that shape, and often define the ICT sector policies.

In 2010, reaches its 25th edition and will address the theme: Networks, services and content: The business of the next decade in Latin America, generating a progress report of the ICT industry in recent years in Latin America and the Caribbean, presenting trends of

the dynamics that drive ICT in different sectors of the economy, and sustainable business models to ensure that ICT will become the main drives for economic and social development in the region for the next 10 years.

During this congress, the FIRST project in Colombia will develop its second event in 2010, where it will present the structure governance and vision of the Technology Platforms in Latin America to board members and relevant actors in R&D of the ICT field in Colombia.

Andicom will take place in Cartagena de Indias, Colombia from October 27 to 29, 2010 at the International Convention Centre and Hotel Las Americas. For further information www.andicom.org.co

For more information regarding these events in Colombia, please contact the national responsible ANA MARÍA TRIMMIÑO, atrimmino@cintel.org.co

First



EU-Latin America ICT R&D Co-operation

*By Klaus Pendl
European Commission*

A Strategic Partnership between the European Union and Latin America and the Caribbean was launched in 1999 at the first EU-LAC Summit in Rio de Janeiro. Over the past decade, the two regions have worked together bringing this partnership to life in a number of important areas, including information and communication technologies.

The next EU-LAC Summit in Madrid on 18 May 2010 will provide another opportunity to foster cooperation between both regions and focus on innovation and technology as an engine for sustainable development and social inclusion, as well as further advancing the EU-LAC Knowledge Area.

Latin America-EU Co-operation

Latin America and Europe have a strong tradition of cooperation: Based on cultural and linguistic links, economic relations have traditionally been strong. The EU is the second trading partner of Latin America and the biggest investor in the region, with strong investments e.g. in telecommunications, automotive industry, banking and insurance, and tourism. This has, during the global crisis of the last years, had a beneficial balancing effect on European companies.

S&T Co-operation

In the field of science and technology, the basis for cooperation is equally strong: Many Latin American academics and researchers have spent part of their education or working life in Europe, and at the same time there are many Europeans with links to and strong interest in cooperation with their Latin American counterparts.

Both national cooperation programmes (e.g. IBEROEKA) and the EU's 7th Research & Development Framework Programme (FP7) provide ample opportunities to strengthen this basis and intensify cooperation: this starts with exchange schemes (such as Erasmus Mundus and Marie Curie Fellowships, and the relatively new International Cooperation Research Staff Exchange Scheme/IRSES). It also includes the possibility for Latin

American organisations (public and private) to participate in project consortia for collaborative research projects and accompanying actions, and to receive funding on the same basis as their European partners.

International cooperation activities under the EU's 7th Research & Development Framework Programme have three main objectives: (1) To jointly respond to major global technological challenges by developing interoperable solutions and standards, (2) To jointly develop ICT solutions to major global societal challenges, and (3) To improve scientific and technological cooperation for mutual benefit.

In the field of ICT, cooperation with Latin America is of particular importance to the EU, and has been steadily expanding in recent years: Participation by Latin American organisations in ICT and e-Infrastructures projects under the EU's R&D Framework Programmes has strongly increased: since 2007, a total of 101 Latin American organisations have become partners in FP7 ICT and e-Infrastructures projects, as compared to 80 during the full five year duration of the previous EU R&D funding programme (2002-2006). This cooperation covers a wide range of topics such as ICT for Health, Grid technologies and infrastructures, embedded systems, Free/Libre and Open Source Software, and Networked Media and 3D Internet. Many of these areas were given special emphasis in previous work programmes.

Furthermore, the European Commission has over the last years supported a number of support action projects (e.g. WINDS-LA, SOLAR-ICT, PRO-IDEAL) to promote the active involvement of Latin America stakeholders in collaborative R&D projects under the FP7 umbrella. These projects worked to create awareness of existing participation opportunities and to map potentially interesting areas of cooperation (activities included e.g. the organization of conferences, trainings, networking opportunities for researchers, surveys and strategic analyses). Since the beginning of 2010, a new cluster of projects (PRO-IDEAL PLUS, FORESTA, FIRST) continues and deepens these activities.



The FP7 ICT work programme for 2011-12, which will be presented later this year (in particular during the ICT Event 2010 in Brussels from 27-29 September 2010), is expected to give another significant boost to EU-Latin America ICT R&D cooperation, for example by including targeted openings for cooperation with Latin America in certain specific areas.

@LIS (Alliance for Information Society)

Beyond research cooperation under the Framework Programmes, the @LIS Programme has promoted the information society throughout Latin America. Since its launch in December 2001, the programme has stimulated dialogue between information society stakeholders in the EU and Latin America, significantly improved the regional ICT infrastructure and its interconnection to European Research networks, and supported exchanges of experience between the telecoms regulatory authorities of the two regions. An external evaluation in 2008 confirmed the relevance of the programme and highlighted its effectiveness and efficiency.

As a follow-up, @LIS 2 was launched in 2009 with a budget of € 31.25 million, of which € 22 million (70%) is being financed by the European Commission (Latin American countries contribute the remainder). Its objective is to continue to promote, and at the same time improve and extend the dialogue and concrete cooperation on the Information Society. It aims to boost interconnections between research networks and communities in both regions (Red-CLARA), reducing the digital divide and integrating Latin America into the global information society.

European Technology Platforms: A success story

The concept of European Technology Platforms (ETPs) was introduced as a way to bring together key European stakeholders, led by industry, with the aim of producing a long-term strategic plan for research and development on specific technologies with a significant economic and societal impact.

In the meantime, some 35 ETPs have been created in various fields. Even though these platforms are at different stages in their life-cycle, it is generally accepted that their results in terms of organization and promotion of R&D activities in Europe are remarkable. This is particularly true for the ETPs in the ICT field, where some have developed a tremendous effort in mobilizing European industry, setting up and implementing Strategic Research Agendas.

FIRST supports creation of Latin American Technology Platforms

In the interest of further improving cooperation between European and Latin American enterprises and researchers, the launch of Latin American Technology Platforms (LATPs), and in a second step their cooperation with European Technology Platforms, would constitute an important step forward.

This is the central goal of the new support action project FIRST, which will help to establish LATPs and, once created, will continue supporting their initial activities such as the definition of their structure, governance rules, Vision and Strategic Research Agendas.

LATPs can bring numerous benefits to the cooperation between Europe and Latin America, including the identification and mobilization of key stakeholders, the definition of counterparts for European Technology Platforms, the structuring of cooperation, as well as the prioritization of R&D challenges and the establishment of common R&D roadmaps for cooperation.

The FIRST project, which focuses on Future Internet, is a very ambitious project that intends to help carry cooperation between Europe and Latin America in the ICT R&D field to a new level. It deserves the full support of the members of European Technology Platforms, with a view to establishing a lasting, mutually beneficial cooperation with key Latin American stakeholders in this important field.

Presentation of FIRST Project in México City



of conferences B3 FORUM - Broadband for Business powered by EXPO COMM - held in Mexico City last February 24th. B3 Forum is the main forum specialized on the most important topics around technological development in Mexico.

The conference was attended by a wide participation of the industry representatives, government and research institutions showing interest in the activities of FIRST Project. AMITI (Mexican Association of Information Technologies Industry); AMIPCI (Mexican Association of Internet); ANATEL (National Association of Telecommunications); CANIETI (National Chamber of Economics Industry of Information Technologies and Communications) and Economy Ministry of Mexico were present, among others.

Mrs. Carmen Agüero, National Coordinator of FIRST-Mexico, took the floor and presented the main objectives and strategies of the FIRST project for the cooperation between the Europe and Latin America through cooperative R&D projects, showing the benefits that the creation of a national technological platform for the promotion of R&D activities in cooperation with European researchers on TICs sector would have.

The Mexican technology platform of Future Internet will be formed by Thematic Working Groups (TWGs) that will work on different areas that form the Future Internet. Those areas have been selected according to the areas where there are European Technology Platforms (ETPs) involved in the Future Internet. These 8 areas are:

Nanotechnologies, Wireless telecommunication, Satellite Communications, Software and services, Embedded systems, Smart systems, Photonics, Networked Electronic Media, etc.

These groups will form the Mexican Technology Platform (MTP) on Future Internet which will allow creating a communication bridge for the cooperation with the ICT European Technology Platforms (ETPs).

Mrs. Carmen Agüero presented the model implemented in Europe to promote R&D activities with the creation of ETPs on areas with enough potential, presenting also the existing FP7 Framework Programme (2007-2013) where cooperative R&D projects can get funding. This programme is a great opportunity for the Mexican ICT industry for establishing cooperation with European stakeholders in the Future Internet field, where European Industry is leading R&D activities in several areas. The creation of the Mexican Technology Platform on Future Internet will be possible thanks to the support given by the FIRST project, which is a EC funded Support Action under the FP7 Programme.

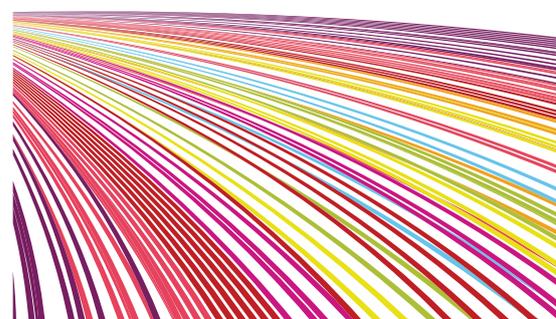
After that, it was debated about the different initiatives and capabilities in the Future Internet field in the Mexican context, and the positioning of the industry in relation with the above mentioned areas and opportunities.

It was also presented one of the main activities to be performed by the MTP, which will be one of the essential objectives for the second year: the production of the Strategic Research Agenda.

In this moment and during the whole month of March, a strategic study it is carried out in Mexico in order to define which technological areas have enough potential to launch effective cooperation between European and Mexican entities. In this phase also the identification of the main actors in those areas in Mexico will be addressed. These actors will be invited to form the Steering Committee of the MTP, that will be the founders of the Technology Platform.

To conclude, it was presented the proposal of the FIRST Work Plan and its next events in Mexico for 2010-2011. Any organization interested in being part of the platform since its early stages is invited to get in contact with the coordinator of the activities in Mexico or the project coordinator (Check the project website for more information on this).

For further information visit the project website:
www.latin-american-technology-platforms.eu



First in Brazil

FIRST project paving the technologic link between Latin America and Europe

First project was presented during the international event “ICT for Socio-Economic Development” in the city of Aracaju, at the Northeast region of Brazil, held on March 25th and 26th.

The event website pointed that its focus was to show that “ICT tools can be used to find, explore, analyze, exchange and present information responsibly and without discrimination. ICT can be employed to give users quick access to ideas and experiences from a wide range of people, communities and cultures”.

The event gathered about 70 participants and representative delegates from the academia, the ICT industry and government authorities. It was focused on sectorial dialogs between Brazil and the European Union aimed at raising needs and ways of acting of ICTs in social areas through business models and knowledge management and distribution among others.

Case studies in Brazil and India were presented where business models were employed to promote the interest in a sustainable development. A visit to the IPTI (NGO) headquarter was carried out, in the city of Santa Luzia do Itanhly, to show to the participants Research and Development projects put into practice in the local community.

Prof. Moacyr Martucci Jr. and Cecília Matsumura presented the First Project, its objectives and the benefits that Technology Platforms can bring for Latin American researchers.

The next event in Brazil will be a two days international workshop programmed exclusively for a First project presentation. It will occur on May 26th and 27th in USP, in the city of São Paulo, to set up and present National LATPs (Latin America Technology Platforms) concept to the ICT R&D community in Brazil. This event has, as main objective, to introduce activities, objectives and expected outcomes to Latin American ICT stakeholders.



Prof. Moacyr Martucci Jr. presentation of First



Prof. Moacyr Martucci Jr. presents the FIRST event schedule for May in USP and invites the participants to it.



From left to right: Saulo F. A. Barreto (IPTI – the event chairman), Cecília Matsumura (FUSP), Miguel González Sancho (European Commission) and Moacyr Martucci Jr. (USP).

FIRST arrives in Argentina and Chile. Let's do it!

With high interest and enthusiasm, the Argentine and Chilean governments welcomed the arrival of FIRST Project. At this stage, ALETI is undertaking the diagnostic analysis in both countries and is being supported by Science and Technology entities from the public and private sector.

In the case of Chile, ALETI is working in coordination with the national agency of economic development, the Corporation of Production Promotion (CORFO) and the National Agency of Science and Technology Research (CONICYT) whereas in Argentina these activities fall under the scope of the Ministry of Science, Technology and Productive Innovation.

A common issue in both countries is the cautiousness that small and medium enterprises show when it comes to getting involved in R+D activities. Despite the fact that this could be an early statement, we have checked that there is no intensive investment in R+D by this group of companies.

In this environment, the project presents itself as a great opportunity to get to know the technologies that are being developed in Europe and Latin America, as well as to get an accurate picture as to in which areas these countries are proficient and in which ones they have potential for further development. Moreover, it opens a unique chance to governments and companies to stop and seriously consider where we should go next, what path to take.

The workshops to launch the project in both countries will take place on April 20th in Argentina and April 22nd in Santiago de Chile and will be the first approach to the future Latin American Technology Platforms -LATP's-. Hence, it is very important for everybody to be there.

In the meantime, we have received the confirmation of scientists from diverse research centres and governmental institutes, as well as from the private Sector, mostly represented by local chambers CICOMRA (IT and Communications) and CESSI (Software and IT Services) in Argentina; GECHS (Software Developer) and ACTI (IT) in Chile.

The goal of this event is to formally present the project and start drawing the future LATP's by the constitution of a Mixed Round Table. The participants of this table will be representatives of the eight technology platforms.

The challenge has already begun! Now, the processes, the creation of LATP's, their strengthening, the establishment of real actions are in the hands of each platform group.

Let's get to work! Welcome on board!

If you are from Argentina or Chile and want to join FIRST, please send an e-mail to National Responsible Dra. Silvia Bidart: silviabidart@aleti.org



EU-LATAM TPs summit in Brussels

High profile transatlantic rendez-vous in September

The “FIRST” and first rendez-vous will be at the ICT event in Brussels in late September. A high profile meeting to launch the EU-Latin American Technology Platforms system. Its mission: to coordinate discussion on research priorities with the European TPs and provide input to national governments and their research programmes on the key challenges that ICT research will have to face soon, around the driving theme of the Future Internet.

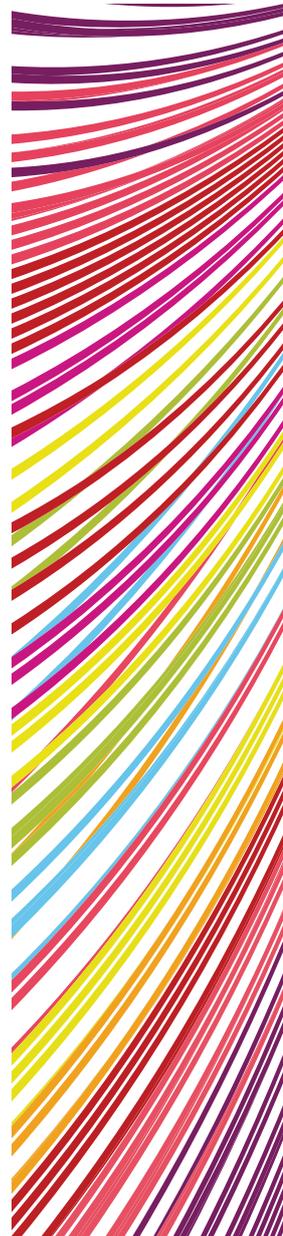
Whereas the exact structure and membership of the Latam TPs is yet to be defined, for sure the creation of five of them, in five key countries in the region (Argentina, Brazil, Chile, Colombia and Mexico) will boost transatlantic cooperation. And more than that, it will make it organised and permanent, right the opposite of what happens today.

“We need to work with Europe in a more regular manner, with well established modalities”– says prof. Moacyr Martucci from the Polytechnic School of University of Sao Paulo, one of the initiators and partners of the FIRST Project – We share common challenges for future research, but the lack of a permanent framework for cooperation has so far been a bottleneck. The Technology Platforms operating in Europe are a very good model to bring together industry and academia. I think we can learn from that. But we also need to find our way to organise such

a consultation mechanism and dialogue with our institutions. So in the end our Technology Platforms might be somehow different from the European ones, but what is important is to have them as a bridge to Europe”.

The foundations of that bridge are being built now. The FIRST Project is devoting its initial phase to a preliminary analysis to understand in which research areas and in which countries, the Technology Platforms should be promoted. To do so, a study is being conducted in parallel in five countries, to better grasp potentialities and bottlenecks. It could well turn out that areas of great importance to one country do not rank at the same levels in another country’s list of strategic priorities.

“We need to identify critical mass”– says Silvia Bidart of ALETI, who is coordinating activities in Argentina and Chile – “and around that, we will bring the key stakeholders together”. And some of the stakeholders should already take part in the first act of the transatlantic Technology Platforms dialogue. A mix of representatives from industry and academic research is expected in Brussels to meet colleagues and EC officers at the ICT event. More info about the agenda for the launch of Latin American TPs will be published on the FIRST website and uploaded on the ICT event portal.



FIRST project Forum Latin America in Campus Party Europe

Bridging the gap between Internet communities, academia and companies

The architecture of "FIRST project" makes an issue of including all key actors that should have a say in a debate about Future Internet. Traditionally, those would be: academia, companies and government. However, the experience in latest years has showed that, when it comes to new services, the innovation has been originated not only in the universities or the companies but, mostly, from the innovators of the Internet community. This group of Internet innovators and trend setters has been traditionally isolated from the academia and companies, a gap that has been proven an obstacle to the advance of research and development as a whole.

Building a bridge between Internet communities, academy, companies and government is the roll of Campus Party in FIRST project. Campus Party is the largest technology and innovation event in Latin America, bringing together in each edition (Brazil, Colombia, Mexico), more than 5.000 intensive users, early adopters of technology and young talented innovators with actors from the academia, the ICT industry and government.

They gather during one week every year, in order to share knowledge and show their projects, an exhibition of digital innovation that proves that the concept of Open Innovation has its best opportunity for development thanks to the millions of Internet users who, from their homes, companies or universities explore the new paths in the most diverse fields of science and technology.

This year, as part of the official agenda of the Spanish Presidency of the European Union, a special edition of Campus Party will be held in Madrid, from April 14th to 18th. This will be also an opportunity for FIRST project to host a session where the most innovative projects emerged from the Internet community in Brazil, Argentina, Colombia, Chile and México will be presented.

The projects were selected among more than a hundred presented by the participants in the latest editions of Campus Party in Brazil, Colombia and Mexico, as well as those who responded to a special call made in Argentina and Chile. The following are the six finalists who have been invited to present their projects in FIRST Project Forum Latin America, during Campus Party Europe, on April 16th:

ITV Project

www.tvdigitalinterativa.com.br

Marcos Roberto de Oliveira (Brazil)

Simplicity and creativity. Those are the keywords of Intacto`s software. To ensure the effective operation of each product, Intacto set the iTVLab, a modern laboratory for research in Digital TV. In addition to research, this environment is also used for creating and testing projects.

The latest solution created in iTVLab is the HandBank, interactive application responsible for allowing the execution of banking transactions by means of remote control. This

application, produced in partnership with ATP, was one of the highlights of the CIAB 2008, annual conference that brings together new bank technologies and solutions.

For the development of HandBank were used Intacto`s authoring tools, enabling the production of interactive content be made untied the programming language. Thus, the developer only needs to create. Intacto is responsible to provide a simplification of software production, making the process of developing and implementing fun, agile and efficient.

TARG TV

<http://targ.tv/us>

Maurilio Alberone da Costa Souza (Brazil)

It is a platform to offer advertising directed to the viewer profile by digital TV. We enable the broadcast of specific campaigns for different viewers and measure their results. Provide increased ROI of the advertiser and more revenue for agencies and broadcasters

Prey

<http://preyproject.com/>

Tomás Pollak (Chile)

Prey is a lightweight application that will help you track and find your laptop if it ever gets stolen. It works in all operating systems and not only is it Open Source but also completely free.



Prey helps you locate your missing laptop by sending timed reports with a bunch of information of its whereabouts. This includes the general status of the computer, a list of running programs and active connections, fully-detailed network and wifi information, a screenshot of the running desktop and — in case your laptop has an integrated webcam — a picture of the thief.

Prey uses a remote activation system which means the program sits silently in your computer until you actually want it to run. If so, it gathers all the information and sends it to your Prey web control panel or directly to your mailbox. The thief will never know his movements are being watched.

Mobile Content Generation

www.entupalma.com/campuspartyfirtman.zip

Maximiliano Firtman, (Argentina)

Creating mobile content (application, services, content push) is today a very expensive solution involving dozens of different platforms, developers and time. Individuals, small companies and organizations don't have the opportunity to offer mobile content easily, like in the web world in blog or social networks. Also, an end user with some content on the web or on the desktop computer cannot take that content with them on the mobile.

Widgen is a widget generator, in beta phase for Nokia N97 (other platforms in development). It

is a service that can create mobile applications in minutes without any programming knowledge based on different templates.

Mobish (Mobile content sharing made easy) is a mobile content converter. It is currently in idea & development phase. It will take a source document (many formats), will convert it to every possible mobile platform, and it will give the user the ability to install it in their phone and to share it in social networks.

Brebox

http://www.sectorweb.net/proyectos/derm/pro_cpe_2010.pdf

Rodrigo Ayala (Mexico)

Brebox is a code editor based entirely on Social-Web, which can be used to develop any software in a collaborative and social manner. The code editor allows the user to program in any language; no matter for what kind of device the software is developed: computer, smartphone, eBook reader, etc. The social part provides a space for the user to publish their source code, photos, videos, programs, reviews and everything you need to interact and relate with others.

Pixtream

<http://bitbucket.org/ceronman/pixtream/wiki/Home>

Manuel Cerón (Colombia)

Pixtream is a P2P program designed to be used with live streaming content. Pixtream takes a live stream from a source and splits it into

several chunks that are then sent to different peers in the network. A peer can download and upload chunks from several other peers, the program takes the chunks and reconstruct them into a stream. The goal of Pixtream is to distribute the upload bandwidth usage among all the peers in the network. Avoiding the bandwidth bottleneck commonly found in client-server streaming systems.





NESSI - Focusing on a services oriented model since 2005

NESSI, the Networked European Software and Services Initiative, is the European Technology Platform dedicated to the transformation into a service oriented economy and distribution model.

Launched in 2005, NESSI unites over 400 organisations from industry and economy. NESSI's governance promotes an open membership for ICT organisations to join its community and transparent processes for projects and results to contribute to its development.

NESSI provides a unified view for European research in Services Architectures and Software Infrastructures that define technologies, strategies and deployment policies fostering new, open, industrial solutions and societal applications.

NESSI defines its vision through the Strategic Research Agenda.

Its main results include

- the creation and animation of a European services community, with focused events such as
 - >> the NESSI Projects Summit where all research results are presented and future directions are discussed
 - >> the ServiceWave Conference Series, elaborated in common with the ETPs eMobility, ISI and NEM as a cross-community (industry / academia) event where latest advances in services research and industrial models are presented
- the definition and building of NEXOF, the NESSI Open Services Framework,

providing a consistent integration framework for research results. Using a pattern based approach, the Web site www.nexof-ra.eu provides online navigation through available results.

- the focus on specific communities and application domains through dedicated Working Groups, such as the Open Source Software WG, the SMEs WG and the iGov WG for public administrations services deployment
- the elaboration of a fully-fledged research structure involving NESSI Strategic and Compliant Projects
- To date, over 120 organisations actively contribute to NEXOF through NESSI Strategic Projects, representing a research investment of 60 M€. More projects are expected to join as Strategic Projects during by June 2010. The full list of projects can be found at www.nessi-europe.eu and focus on topics ranging from service front-ends to security, cloud computing and virtualisation.

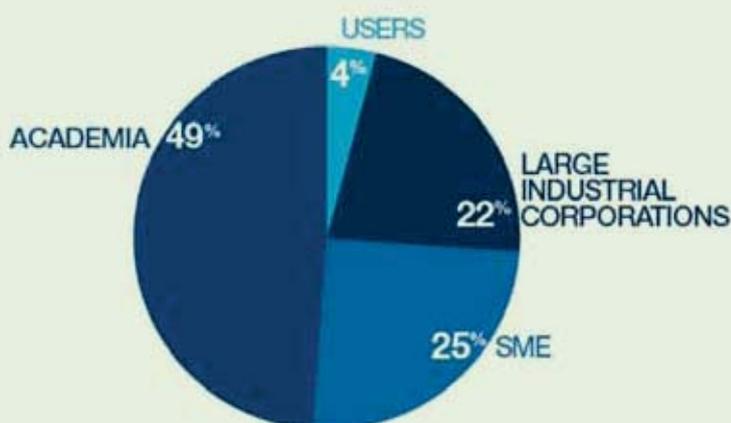
NESSI is coordinated by 25 partners, whose role is to ensure the consistency and coherence of the activities and support its dynamicity. But the heart of NESSI lies with its over 420 members, and this constituency is shared between industry and academia

NESSI partners include Alcatel Lucent, Answare, ATC, Atos Origin, BT, Cini, Engineering Ingegneria Informatica, HP Labs, France Telecom, IBM, Inria, IT Innovation, OW2 Consortium, Nokia Siemens Network, SAP, Siemens, Sintef, Software AG, Telecom Italia, Telefonica, Thales, TIE Kinetix, Universidad Politecnica de Madrid and University of Duisburg-Essen.

What is NESSI's role in the Future Internet?

The European Commission has publicised its intention to support a private-public partnership on Future Internet, focusing on large pilots that establish smart infrastructures in domains such as energy grids, environmental information systems, healthcare, transport and mobility. The implementation is foreseen to start with 300 M€ through dedicated calls over 2011-2013, for projects that deliver short to medium term results in service architectures and platforms and

How is NESSI organised? Who is part of its Community?





business processes and applications.

NESSI welcomes the Future Internet Private-Public Partnership (PPP) plans as an opportunity

providing NESSI with a **highly complementary opportunity** of application specific deployments, in collaboration with all the ICT players required to enable end-to-end scenarios. Similarly, the existence of NESSI and of all the ETPs active in ICT is a major advantage for the Future Internet PPP – providing it with a starting point that is advanced in terms of communities and of coherent mechanisms. With the ETPs, the Future Internet PPP can speed up its results

by building on existing communities, running projects that are already actively collaborating at results level, beyond collaboration at working group level.

In this domain, NESSI's NEXOF approach, tested, implemented and expanding, constitutes to date the only such mechanism. Its value is key in terms of providing both research projects and industrial solutions with a contribution opportunity for their results under the form of patterns.

How can collaborations be set-up with NESSI?

NESSI is an open community, interested in

gathering as many contributions as possible from all aspects of services research and results.

While its annual events (NESSI Projects Summit and ServiceWave) are open to all, the most effective way of contributing is to join as member. Membership is an open online process and rules for membership are online at www.nessi-europe.eu.

Joining as a member eases the access to all NESSI activities, including working groups, the definition and refinement of the NESSI vision through the Strategic Research Agenda volumes and the creation of new research collaborations contributing to the overall elaboration of NEXOF.

Other opportunities for collaboration include

- the National Initiatives, a network of national platforms including Bulgaria, Hungary, Norway, Poland, Spain, Slovenia, and The Netherlands. The overall goal of the NESSI Platforms network is to promote the development and application of ICT technologies within National industry and government
- the NEXOF Open Calls for Contributions, where contributors from all over the world submit their developments

More information?

www.nessi-europe.eu

www.nexof-ra.eu

www.servicewave.eu

www.future-internet.eu

*NESSI general information, activities and memberships
access to NEXOF including online navigation of existing patterns,
latest news, architecture evolution and open calls
dedicated specifically to the ServiceWave conference series
main activities relating to the Future Internet*

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Technical support for European organisations sprl
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Instituto Tecnológico y de Estudios Superiores de Monterrey
<http://www.itesm.mx>
Mexico



Centro de Investigación de las Telecomunic
www.cintel.org.co
Colombia



Futura Networks do Brasil Consultoria Lda
www.campus-party.org
Brazil



Federación de asociaciones de Latinoamérica el Caribe y España de entidades de tecnologías de la información
www.aleti.org
Costa Rica