

First

Implementing cooperation on Future Internet and ICT Components between Europe and Latin America

Objective ICT-2009.9.1: International cooperation

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Abstract	This document compiles the activities performed to provide a feedback of FIRST activities to National Future Internet Initiatives.
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EXECUTIVE SUMMARY

This deliverable summarises the activities carried out within Task 5.3 "Feedback and liaison with National Future Internet Initiatives", to establish liaison between the FIRST Project and Latin American Technology Platforms (LATPs) with the National initiatives targeting Future Internet, during the second year of the project.

The National initiatives under concern are the one listed in the European Future Internet portal:

- F*- Finland - Finnish ICT SHOK research programme
- F*- Spain – es.Internet
- F*- Germany - G-Lab
- F*- France - Groupe de Reflexion Internet du Futur GRIF
- F*- Sweden - Ambient Sweden
- F*- Belgium
- F*- Luxembourg
- F*- Italy
- F*- The Netherlands
- F*- Ireland
- F*- UK

And any other National Initiatives related to Future Internet.

The FIRST project maintained tight cooperation to all the National initiatives mentioned above, through different joint activities, such as publications of articles in newsletters and website, identification of opportunities of cooperation, promotion of bi-lateral relationship and increase awareness in the LATPs environment of the existence of national Initiatives focused on Future Internet at Member State level in Europe.

During the second year of the project, the contact already established during the first year with many National Initiatives was maintained, as well as the exploitation of possible ways of cooperation at technology platform level. As a consequence of these contacts the following results were achieved:

- F*- During the second year the LATPs have organized several technology platforms events in the different countries, where the links between LATPs and national initiatives on Future Internet as natural counterparts were reinforced.
- F*- Some of the National Initiatives related to Future Internet were invited to the FIRST events organized in Europe to promote the dialogue between European Future Internet research community, initiatives, programmes and organisations and the LATPS
- F*- FIRST regularly delivered the *First to know* Newsletters to the National Initiatives.

A significant impact in sharing Latin America Strategic Research Agenda and Roadmap documents, and promoting cooperation opportunities between Europe and Latin America in the ICT area, and particular in the field of Future Internet, has been achieved and culminated at FIA event in Poznan, October 2011. Finally, FIRST has published two press releases which were disseminated through different channels, together with the publication of several deliverables produced by the project.

1 General introduction

The main objective of FIRST WP5 is to create an active and frequent interaction between European and Latin American researchers in the field of Future Internet through the establishment of fluent communications between LATPs and ETPs. Thus, this WP ensured that all relevant European groups were aware and got benefits from FIRST results and LATPs through:

- Feedback to European Commission initiatives and other European programmes.
- Feedback to ETPs and Joint Undertakings (JUs).
- Feedback to European national initiatives on Future Internet.

This deliverable summarises corresponding activities carried out during the second project year within Task 5.3 “Feedback to European national initiatives on Future Internet”, whose main objective is to establish links with national initiatives focused on Future internet at EU Member State level:

Activities within this task include:

- F*- Analysis of European national initiatives and identification of opportunities for cooperation.
- F*- Increase awareness in LATPs on European initiatives and vice versa.
- F*- Promotion of bi-lateral relationships and agreements among the LATPs and European national initiatives on Future Internet.

2 Analysis of European National Initiatives and identification of opportunities for cooperation

In order to provide feedback on FIRST project activities as well as activities in establishment of Technology Platforms in Latin America and promotion of cooperation among Europe and Latin America in ICT related research, the following material were prepared and distributed during the second year of the project:

- FIRST project brochure.
- Link to FIRST website (<http://www.latin-american-technology-platforms.eu/>).
- Report on the capacities and potential areas for cooperation between Europe and Latin America (also available at http://www.latin-american-technology-platforms.eu/docs/FIRST_D2.1_National_reports_v1.0.pdf).
- Report on the capacities and potential areas for cooperation between Europe and Latin America (available at http://www.latin-american-technology-platforms.eu/docs/FIRST_D2.1_National_reports_v1.0.pdf).
- Regional LATP Vision 2020 on Future Internet cooperation (available at http://www.latin-american-technology-platforms.eu/uploads/Vision-2020_Regional-LATP-Vision-2020.pdf)
- Set of 5 country Strategic Vision documents and governance rules (available at <http://www.latin-american-technology-platforms.eu/uploads/FIRST-D3.1-Set-of-5-Countries-Strategic-Vision-documents-and-governance-rules-1.0.pdf>)
- National reports on potential areas for cooperation between Europe and Latin America in the field of Future Internet (available at http://www.latin-american-technology-platforms.eu/docs/FIRST_D2.1_National_reports_v1.0.pdf)

The material was directly provided to National Contact Points and National Initiatives on Future Internet, on the following Countries:

- F*- Finland - Finnish ICT SHOK research programme [1]
- F*- Spain – es.Internet [2]
- F*- Germany - G-Lab [3]
- F*- France - Groupe de Reflexion Internet du Futur GRIF [4]
- F*- Sweden - Ambient Sweden [5]
- F*- Belgium [6]
- F*- Luxembourg [7]
- F*- Italy [8]

F- The Netherlands [9]

F- Ireland [10]

F- UK [11]

FIRST project maintained tight cooperation with the National Initiatives mentioned above, through different joint activities, such as mutual attendance to related events, articles in newsletters or websites, etc.

More details on contacted initiatives and programmes are given below.

2.1.1 Finland - Finnish ICT SHOK research programme

Focus of the initiative:

The goal of the Future Internet programme is to bring together the key research resources to develop future Internet networking technologies and to create new global ICT based business ecosystems.

The programme is a part of the ICT cluster of the Finnish Strategic Centres for Science, Technology and Innovation (ICT SHOK).

Web site: <http://www.futureinternet.fi/>

2.1.2 Spain – es.Internet

Focus of the initiative:

es.INTERNET is the Spanish Technological Platform to Future Internet Convergence. Given the growing interest of existing ICT platforms (eNEM, eMOV, eISI, eSEC, Evia, INES, PROMETHEUS) around the Future Internet area, it was considered necessary to create a new Internet platform of the future converge in bringing together and coordinate these interests common to all platforms.

As a platform for convergence, es.Internet aims to unite and coordinate the common interests of national platforms to rest in order to establish links with other national and European platforms.

Web site: <http://www.idi.aetic.es/esInternet/>

FIRST specific activities towards this initiative:

ROSE has met in several occasions with the Spanish Ministry of Industry, Tourism and Trade, which is the promoter of this initiative, and thanks to these contacts the es.Internet initiative and in general the Spanish policy around Future Internet is focusing on international cooperation rather

than in a pure national programme and initiative. The Spanish initiative showed a special interest in establishing links and cooperating with LATPs once they are formally launched.

In addition to the es.Internet activities related, the contact with eISI, eMOV, eNEM, INES, GENESIS, HISPAROB, and FOTONICA21 (Spanish mirrors of ISI, eMobility/Net!Works, NEM, NESSI, ENIAC, ePOSS, and Photonics respectively) was maintained.

FOTONICA21 has participated to the FIRST event during FIA Poznan 2011, the European and Latin American ICT Technology Platforms Experts Encounter on the ICT Sectors.

HISPAROB and FOTONICA21 have participated to the event co-organized by FIRST, Fostering EU-Latin America Policy Dialogue, in Brussels, November 2011.

2.1.3 Germany - G-Lab

Focus of the initiative:

Today's Internet has a large economic influence but is based on legacy mechanisms and algorithms from the 70ies and 80ies. New applications have high demands for which the original Internet architecture was not designed for. The goal of the G-Lab project is to foster experimentally driven research to exploit future internet technologies.

The G-Lab project consists of a Germany-wide research and experimental facility used to investigate the interplay between new technologies and the requirements of emerging applications. The BMBF funded project consists of 32 partners. The first phase started in October 2008 with six partners and runs for three years. The second phase started in September 2009 and consists of nine additional research projects. The G-Lab testing facilities consist of wired and wireless hardware with over 170 nodes which are fully controllable by the G-Lab partners.

Web site: <http://www.german-lab.de/>

2.1.4 France - Groupe de Reflexion Internet du Futur GRIF

Focus of the initiative:

The General Directorate for Competivity, Industry and Services (DGIS) of the Ministry of Economy, Industry and Employment has created a Group Internet of the Future in 2007. This Group is composed by experts in Internet recognized at international level and belonging to research organizations, SMEs and large companies.

FIRST specific activities towards this initiative:

THALES regularly briefs them about the achievements of the project and gets their feedback.

2.1.5 Sweden - Ambient Sweden

Focus of the initiative:

Sweden can achieve its goal of being a leading Internet nation in 2015. To ensure that this happens, we would like to establish a programme – *Ambient Sweden* – to realize the proposals generated by *Internet Foresight*.

The Ambient Sweden programme will drive the development and implementation of the proposals. IVA is an appropriate organisation to continue to promote these efforts and initiatives, which should be carried out in cooperation with a broad range of other players. The programme should be launched in the first half of 2008 as this could generate additional detailed materials to use during Sweden's chairmanship of the EU in autumn 2009.

Web site: www.vinnova.se/upload/EPiStorePDF/AmbientSweden.pdf

2.1.6 Belgium

Focus of the initiative:

IBBT want to create a lasting and positive impact on society through ICT innovation:

- demand driven, interdisciplinary research in collaboration with technology suppliers and users
- excellence in research in domains with a high societal relevance
- stimulating entrepreneurship
- a wide (inter)national ecosystem for ICT innovation

Web site: www.ibbt.be

2.1.7 Luxembourg

Focus of the initiative:

Growth and innovation on the Internet depends on the continued availability of IP address space. The remaining pool of unallocated IPv4 address space is likely to be fully allocated within two to three years since only 560 million IP addresses, or 13% of the total space, are left to play with. IPv6 provides the necessary address space for future growth. We therefore need to facilitate the wider deployment of IPv6 addresses. While the existing IPv4 Internet will continue to function as it currently does, the deployment of IPv6 is necessary for the development of future IP networks.

The Luxembourg IPv6 Council has been established to support a smooth transition to IPv6 by consulting and advising all stakeholders with recommendations and roadmaps. This council will be made up of experts from industry, research, politics and administration in the IPv6 field with the

clear mission to advocate IPv6 by improving technology, market, and deployment user and industry awareness of IPv6, creating a high-quality and secure new-generation Internet

Web site: www.ipv6council.lu

FIRST specific activities towards this initiative:

ROSE regularly briefs them about the achievements of the project and gets their feedback.

2.1.8 Italy

Focus of the initiative:

Fondazione Bruno Kessler is situated in **Trentino, a province in northern Italy** governed under a special autonomy statute. The foundation, **with more than 350 researchers**, conducts studies in the areas of Information Technology, Materials and Microsystems, Italo-Germanic studies, and Religious sciences.

Thanks to a close network of alliances and collaborations, FBK also conducts research in theoretical nuclear physics, networking and telecommunications, and social sciences (studies of public policy effectiveness).

The objectives of the foundation are to:

- Conduct research that obtains recognition at an international level
- Carry out applied research of strategic importance to the province
- Publicize scientific results and promote economic development
- Encourage innovation throughout the province

Web: <http://www.fbk.eu/about>

2.1.9 The Netherlands

Web: www.futureinternet.ez.nl

2.1.10 Ireland

Focus of the initiative:

The Annual Future Internet Forum Event provides a unique opportunity for an interesting and lively discussion, whilst also promoting Ireland's Scientific and Technological leadership within the Irish and European research communities.

Web: www.futureinternet.ie

FIRST specific activities towards this initiative:

ROSE regularly briefs them about the achievements of the project and gets their feedback.

2.1.11 UK

Focus of the initiative:

The Imperial College Internet Centre was created in 2005 to develop the applications and industries of the next-generation Internet. The Centre continues and expands the mission of the [London e-Science Centre](#). The Centre is part of the Imperial College [Department of Computing](#), one of the largest computing departments in the UK and a world leader in academic research in computer science.

The Internet will clearly continue to grow in importance and complexity as an economic and social arena. To meet this challenge, the Centre promotes a research agenda in which the economic, social and legal dimensions of the next-generation Internet are equal partners with computing and technology.

The Internet Centre also works closely with leading commercial and academic stakeholders in the next-generation Internet, such as Vodafone, the BBC, and the London Science Museum

Web site: www.internetcentre.imperial.ac.uk/about_us

2.1.12 Portugal

The Portuguese ICT NCP, Marta Barbas is regularly briefed about FIRST. As part of the project relationship with Portuguese initiatives, the contact with three projects willing collaboration with other entities was provided to the LATPs.

3 Further related activities

During the second year of the project, the contacts with all the National Initiatives and Programmes were maintained in order to brief them on the outcomes of the project, as well as to explore possible ways of establishing cooperation.

As a consequence of these contacts the following results were achieved:

- Both LATPs and National Initiatives in Europe are perfectly aware on their respective existence and have the ground to facilitate collaboration between both after the project.
- FIRST regularly delivers the *First to know* Newsletters to the National Initiatives, and it is distributed to their respective members.
- FIRST co-organized an event for Fostering EU-Latin America Policy Dialogue, in Brussels, November 2011, counting with the participation of EC officials of DG INFSO and DG RTD; Members of the European Parliament; Innovation and research agencies from Europe and LAC; scientific attachés from LAC Embassies ; European and Latin-American ICT Technology Platforms; Joint Technological Initiatives; Federation of enterprises active in the LAC market; Chambers of Commerce; Initiatives for international cooperation in research; Managers of bilateral cooperation programmes; NCP' s; Ideal-IST; members of the Strategic Forum for International S&T Cooperation; ICT research community; ICT Industry; Media.

The event Fostering EU-Latin America Policy Dialogue achieved the challenging objective of bringing together several activities that have been undertaken in cooperation between Europe and Latin-American countries. Inspiring panels of experts from industry, government, academia, research as well as the European commission, presented their experiences, best practices and success cases looking for a concrete interaction and fruitful synergies with all presenters and participants. Different speakers and participants remarked the big opportunity that the event bringing together such a huge and articulated critical mass of stakeholders, totaling about 150 people coming from both shores of the Atlantic, represented for the ICT community interested in EU-LA research and innovation.

Following the output and intense work and debates held on the first day of the event, strong policy messages were delivered the next day in an exceptional event location, the European Parliament, where such important momentum in the EU-LA cooperation framework was further highlighted. The technological talent and interest to cooperate from Latin America is indeed a fact: in a meeting room of the European Parliament packed to capacity, Latin-America delegations from throughout the region could stage a brilliant and dynamic showcase of ideas, project presentations, and success stories of ICT and research in front of European research and industry stakeholders, European Commission officers and Members of the European Parliament.

Latin America is presenting a lot of opportunities for the European ICT community, demanding a step up of the EU-LA policy relations for Science & Technology cooperation towards a partnership of equals.

4 References

- [1] Finland - Finnish ICT SHOK research programme - <http://www.futureinternet.fi/>
- [2] Spain – es.Internet – <http://www.idi.aetic.es/esInternet/>
- [3] Germany - G-Lab – <http://www.german-lab.de/>
- [4] France - Groupe de Réflexion Internet du Futur GRIF
- [5] Sweden - Ambient Sweden – www.vinnova.se/upload/EPiStorePDF/AmbientSweden.pdf
- [6] Belgium – www.ibbt.be
- [7] Luxembourg – www.ipv6council.lu
- [8] Italy – <http://www.fbk.eu/about>
- [9] The Netherlands – www.futureinternet.ez.nl
- [10] Ireland– www.futureinternet.ie
- [11] UK – www.internetcentre.imperial.ac.uk/about_us