



FUTURE INTERNET TESTBEDS
EXPERIMENTATION BETWEEN
BRAZIL AND EUROPE



Grant Agreement No.: 288356

FIBRE-EU

Future Internet testbeds/experimentation between BRazil and Europe – EU

Instrument: *Collaborative Project*

Thematic Priority: *[ICT-2011.10.1 EU-Brazil Research and Development cooperation, topic c) Future Internet – experimental facilities*

D6.2 Dissemination Report for Year 1

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Abstract

This document presents all dissemination actions taken within the first year of the project. Information is organized according to the tasks of the work package. First, printed and electronic dissemination material produced during this period is summarized. Then, organization of FIBRE events is presented. Finally, participation of FIBRE partners in external events and efforts for collaboration are described.



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1 Acronyms

CeBIT	Centrum Buro Information Telekommunikation
CFI	International Conference on Future Internet Technologies
CMF	Control and Management Framework
DoW	Description of Work
ECOC	European Conference and Exhibition on Optical Communication
EU	European Union
FI	Future Internet
GENI	Global Environment for Network Innovations
ICC	IEEE International Conference on Communications
ICST	Institute for Computer Sciences, Social Informatics and Telecommunications Engineering
ICT	Information and Communication Technologies
IoT	Internet of Things
OCF	OFELIA Control Framework
OFELIA	OpenFlow in Europe: Linking Infrastructure and Applications
SDN	Software Defined Networks
TB	Technical Board
TRIDENTCOM	International ICST Conference on Testbeds and Research Infrastructures for the Development of Networks and Communities
WP	Work Package
WP1	Work Package 1 (Project Management)
WP5	Work Package 5 (Development of Technology Pilots and Showcases)
WP6	Work Package 6 (Dissemination and Collaboration)



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2 Scope

The purpose of the first year dissemination report is to present all the dissemination actions taken within the first year of the project. They are categorized according to their nature and the task they belong to.



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3 Reference Documents

- [1] <http://www.fibre-ict.eu>
- [2] <http://siti.ulusofona.pt/~api/index.php/events/api-think-tank-7>
- [3] <http://www.eurescom.eu/news-and-events/eurescommessage/eurescom-messge-2-2012/openflow-for-high-capacity-transport-networks.html>
- [4] <http://groups.geni.net/geni/wiki/GEC14Agenda/InternationalFederation>
- [5] <http://www.infonorchile2012.uta.cl/>
- [6] <https://alpha.fp7-ofelia.eu>
- [7] <https://github.com/fp7-ofelia/ocf>
- [8] <http://ict-openlab.eu>
- [9] <http://svn.planet-lab.org/wiki/SFAGuide>



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4 Printed and Electronic Dissemination Material

The first task of WP6 deals with the production and organization of dissemination material. Efforts have been concentrated on the preparation of both printed and electronic dissemination material.

Printed material constitutes in posters, leaflets and scientific papers in journals/magazines. It is important for effective dissemination of the project in external events where FIBRE partners participate (posters/leaflets), especially if there is no talk dedicated to FIBRE during these events. Scientific papers are also important, both for having an additional measure of project results, apart from the deliverables themselves, and for evaluating the impact of ideas developed in the project in the scientific community (through citations, and acceptance in reputable journals/magazines).

Electronic material, comprised by the project's public website and the project's presence in electronic social networks, presents greater flexibility, due to its dynamic content, and broader dissemination potential, due to its wide accessibility. Attractive and practical design has been the guideline for the development of this material, along with rich content, updated regularly and in a timely manner, according to project progress and upcoming events.

In the two subsections below, we present printed and electronic dissemination material, respectively, corresponding to year 1 of the project.



4.1 Printed Dissemination Material

4.1.1 Posters and Leaflets

In compliance with the DoW, project posters and leaflets have been created, to be used in public events where FIBRE partners participate. Specifically, two posters and one leaflet have been created so far, they have already been used in dissemination events (see section 6), and they are available for download at the project’s website [1], in the “Media and Outreach” section. Even though the initial plan (as stated in the DoW) was to create only one poster during the first year, and one during the third year, FIBRE partners decided to create a second poster for TridentCom, to be also used in later events, mainly to stress the project’s specific vision for the structure of the federation of its testbeds, as formed during partner efforts in the first period of the project. In the figure below we can see the second poster created.

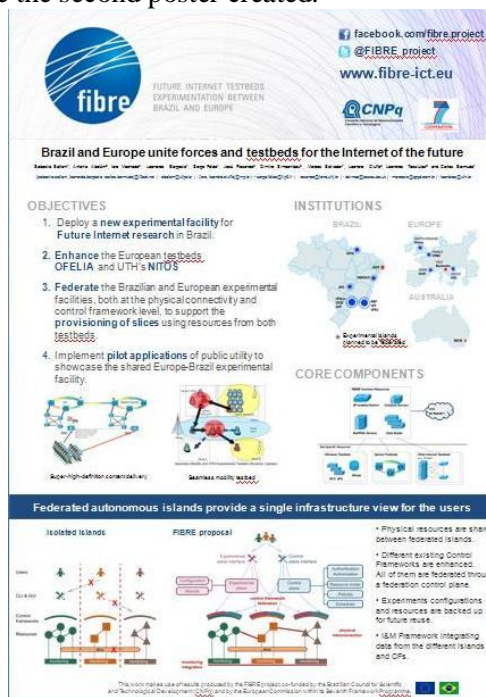


Figure 1: Current version of FIBRE’s poster

4.1.2 Scientific papers

A number of papers related to the work undertaken by the FIBRE partners have already been published in reputable scientific conferences, journals and magazines. It must be stressed that FIBRE was acknowledged in all of them; therefore the connection between the results and the project is clear. In the table below we list the publications during the first year of FIBRE.

<i>Title</i>	<i>Magazine, book</i>	<i>Partner involved</i>
An Instrumentation and Measurement Architecture Supporting Multiple Control and Monitoring Frameworks	TRIDENTCOM 2012 poster	José A. Suruagy (UFPE), Joberto S. B. Martins (UNIFACS) et al.
FIBRE project: Brazil and Europe unite forces and testbeds for the Internet of the future	TRIDENTCOM 2012 poster	All FIBRE TB members
Integrating FlowVisor access control in a publicly available OpenFlow testbed with slicing support	TRIDENTCOM 2012 demo	Dimitris Giatsios, Kostas Choumas, Dimitris Syrivelis, Thanasis Korakis, and Leandros Tassioulas



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Estado da Arte de Sistemas de Controle e Monitoramento de Infraestruturas para Experimentação de Redes de Comunicação	Proceedings of SBRC 2012	Cesar Augusto Cavalheiro Marcondes (UFSCar), Joberto Martins (UNIFACS), José Augusto Suruagy Monteiro (UFPE), Kleber Vieira Cardoso (UFG), Antônio Jorge G. Abelém (UFPA), Vagner Nascimento (UFPA), Iara Machado (RNP), Tereza C.M.B. Carvalho (USP), Charles C. Miers (USP/UEDESC), Marcos Salvador (CPqD) e Christian Esteve Rothenberg (CPqD)
A Proposal Management of The Legacy Network Environment using OpenFlow Control Plane	The Fourth International Workshop on Management of the Future Internet in conjunction with IEEE/IFIP NOMS 2012	Fernando Farias et al.
Brazil and Europe unite forces and testbeds for the Internet of the future	API Think-Tank 7th [2]	All FIBRE TB members
Experimental Evaluation of Extended OpenFlow Deployment for High-Performance Optical Networks	ECOC 2012	Mayur Channegowda, Pawel Kostecki, Nikolaos Efstathiou, Siamak Azodolmolky, Reza Nejabati, Pawel Kaczmarek, Achim Autenrieth, Jörg P. Elbers, Dimitra Simeonidou
First Demonstration of an OpenFlow based Software-Defined Optical Network Employing Packet, Fixed and Flexible DWDM Grid Technologies on an International Multi-Domain Testbed	ECOC 2012 Post-deadline paper	M. Channegowda, R. Nejabati, M. Rashidifard, S. Peng, N. Amaya, G. Zervas, D. Simeonidou, Ricard Vilalta, Ramon Casellas, Ricardo Martínez, Raúl Muñoz, Lei Liu, Takehiro Tsuritani, Itsuro Morita, Achim Autenrieth, Jörg P. Elbers, Pawel Kostecki, Pawel Kaczmarek
OpenFlow for High Capacity Transport Networks	Eurescom mess@ge article [3]	D. Simeonidou, R. Nejabati

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4.2 Electronic Dissemination Material

4.2.1 Website

The project website [1] has been operational since the beginning of the project. During year 1, its design and structure has been enhanced several times, through the collaboration of WP6 co-leaders UTH and RNP. A snapshot of its current appearance can be viewed in Figure 2.

There are both horizontal and vertical menus to facilitate user navigation. All public deliverables can be found and downloaded, along with project-related publications and posters. FIBRE meetings and open events are also listed analytically, while the most recent and upcoming ones are also presented through the news rotator, which appears in the centre of the homepage.

There is a section about the pilot use cases, which is expected to be enriched with video material and real measurement data, once the first pilot-related experiments (within the recently commenced WP5) have been conducted. Furthermore, there are links pointing to the project's pages/accounts in social media (described next).



Figure 2: Snapshot of FIBRE's public website

4.2.2 Social Media

FIBRE WP6, acknowledging the importance of social media in dissemination, has setup and maintains project accounts in Facebook, Twitter and Slideshare. Each account hosts content according to the respective medium's nature. The Facebook page contains a lot of photographs from the project meetings and events and updates on important developments. Followers of

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FIBRE's Twitter account stay up-to-date regarding important deliverables, project news and upcoming events. Finally, the project uses Slideshare to promote the project through presentations realized in various events. In the figures below we can see some snapshots of these pages, demonstrating FIBRE's presence in social media.

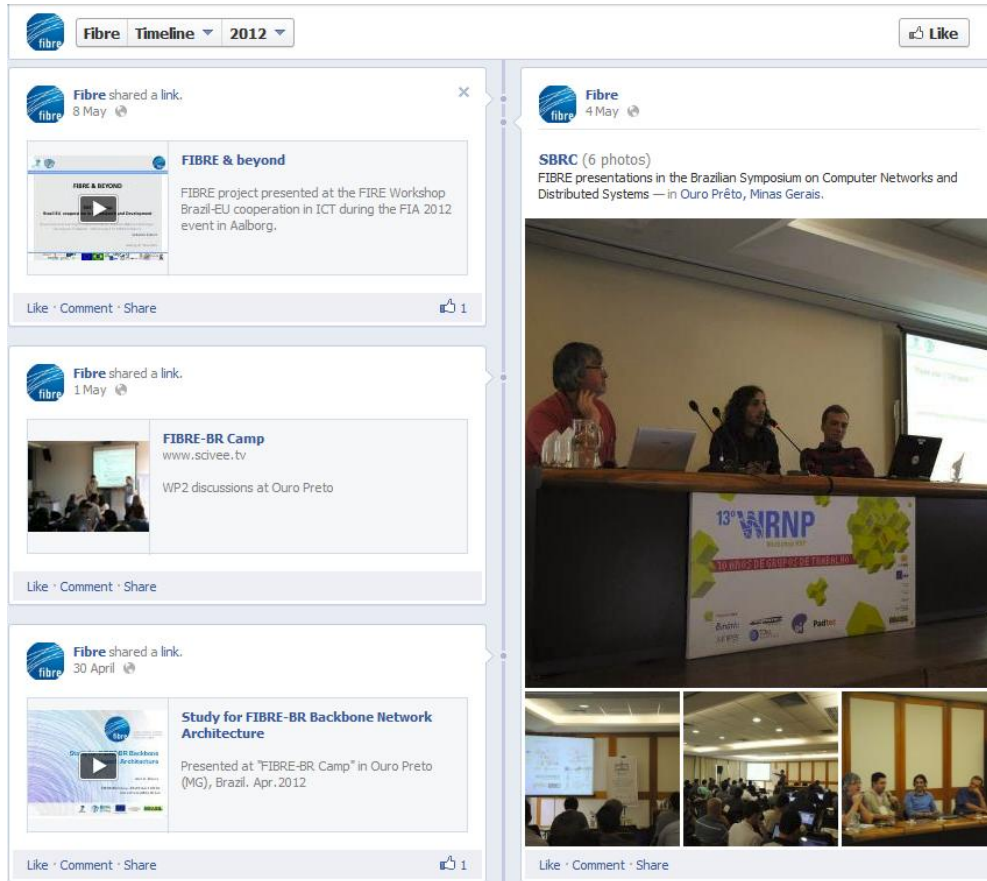


Figure 3: Snapshot of FIBRE's Facebook page



Figure 4: Snapshot of FIBRE's Twitter account



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Figure 5: Snapshot of FIBRE's Slideshare account



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5 Organization of Workshops, Tutorials and other events

The second task of WP6 deals with the organization of project events, in particular workshops and tutorials. According to the DoW, one tutorial event was planned within the first year, aiming at project members not familiarized with the technologies used in the project. Furthermore, the first out of three FIBRE open workshops was planned to take place in a convenient date after the completion of the first year of the project.

In accordance with the plans, the tutorial event took place in April 2012, and the 1st open workshop will take place in November 2012 (final preparation details in progress), along with the yearly review of the project. Details for these events can be found in the two subsections below.

5.1 FIBRE-BR Camp

Held on the historical colonial city of Ouro Preto in Brazil on April 28-29, this event brought together all Brazilian postgraduate students working on the project to exchange information and discuss on how to deploy the Brazilian testbed. It was mainly aimed at bringing up to speed FIBRE members not familiarized with the underlying technologies used in the project.

Apart from the Brazilian partners, Leonardo Bergesio from i2CAT and Max Ott from NICTA, both FIBRE partners, attended the event and participated in its processes. In general, the Camp attracted a lot of interest with a surprisingly (and pleasantly) high number of attendants, as it can be verified from Fig.7.

The event took place in the same week as the Brazilian Symposium on Computer Networks and Distributed Systems (SBRC), which also hosted the 3rd Future Internet Experimental Research Workshop (WPEIF). See section 6 for FIBRE participation in these events.



Figure 6: Photograph of a session at FIBRE-BR Camp



Figure 7: Group photograph of the attendants of the FIBRE-BR Camp in Ouro Preto



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Below we can see the agenda of this two-day tutorial event.

Saturday 28/4	
Welcome and FIBRE Overview Antonio Abelem	09.30-10.00
Communications from WP6 Leandro Ciuffo	10.00-10.20
Report on CHANGE-OFELIA summer school Christian Rothenberg	10.20-10.40
Report on OpenLab Workshop – Federation Architecture and Tools Jose Rezende	10.40-11.00
OpenFlow mini-tutorial Leandro Bertholdo	11.00-12.30
Lunch Time	12.30-14.00
Report on OFELIA Cesar Marcondes	14.00-15.30
Coffee break	15.30-15.50
Report on OMF Max Ott	15.50-17.50
Sunday 29/4	
Report on ProtoGENI Tereza Carvalho	09.00-09.45
SFA and Federation Issues Max Ott	09.45-10.30
Coffee Break	10.30-11.00
Monitoring Architecture and Multiple CMFs Jose Augusto Suruagy Monteiro	11.00-12.30
Lunch time	12.30-14.00
FIBRE-BR planning session Antonio Abelem, Michael Stanton, Iara Machado	14.00-18.20



5.2 1st FIBRE open workshop

The first FIBRE open workshop will take place in Salvador, Brazil, on 26-27 November. Final preparations are currently taking place.



Figure 8: Venue of 1st FIBRE workshop in Salvador

This workshop will mostly aim at building a community around Future Internet experimentation in Brazil. It will include two training sessions, as well as a session devoted to industry with invited representatives (industry players, policy makers) participating in a panel discussion.

Ivan Seskar, director of WinLab at Rutgers University, New Jersey, USA, and Jong Won Kim, professor at the Department of Information & Communications (DIC), Gwangju Institute of Science & Technology (GIST), Gwangju, Korea, have already confirmed their attendance, and will be keynote speakers, along with the project officer Jacques Babot, who will give a speech about the FIRE initiative.

Below a tentative agenda of the meeting can be viewed.

Monday 26/11	
Registration	08.00-08.30
Welcome message Convener: Joberto Martins	08.30-09.00
08.30 Marilyn Peixoto, Opening speech from the Ministry of Science, Technology and Innovation (TBC)	
08.45 Mario Campolargo (through web conf), Opening Speech from the European Commission DG CONNECT	
Keynote session: Experimentally driven initiatives worldwide Convener: Serge Fdida	09.00-10.45
09.00 Jacques Babot, FIRE (Future Internet Research Experimentation) for Europe, Running Projects and perspective	
09.30 Ivan Seskar, Future of the Internet, A GENI's Perspective	
10.00 Jong Won Kim, Invited Keynote from Asia (Title to be defined)	
Coffee break and poster session	10.45-11.00
Panel with Industry Players Convener: Marcos Salvador	11.00-12.30
11.00 Presentation from Padtec	
11.20 Presentation from Datacom	



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11.40	Presentation from Marvell Inc.	
12.00	Presentation from Nextworks Srl.	
Lunch Break		12.30-14.30
Agenda for Future Internet in Brazil Convener: Michael Stanton		14.30-16.00
14.30	Invited talk from ministry of S&T representative	
15.00	Invited talks from CNPq	
15.30	Invited talk from the Brazilian Network Research Community	
Coffee Break and Poster Session		16.00-16.30
TRAINING SESSION A: OCF-based island short course Hands-on Training		16.30-18.30
Leonardo Bergesio: <i>Setting up an Experiment in OCF. Short Demo of Power Aware Routing</i>		
Mayur Channegowda: <i>Optical Adaptation Experiment</i>		
Tuesday 27/11		
Everything you want to know about FIBRE Conveners: Antonio Jorge Abelém, Sebastia Sallent		08.30-10.30
08.30	Project Overview	
09.00	FIBRE solutions	
09.30	FIBRE architecture + survey on hardware equipment used	
10.00	Federation and virtualization as a key factor for FI	
Coffee Break & Poster Session		10.30-11.00
FIBRE live demo Demonstration of an island in Brazil connected to an island in EU Proposed demo: Live song between BR and EU		11.00-12.00
Future Internet Applications Talk on real case examples of FI applications		12.00-12.40
Lunch Break		12.40-14.30
FIBRE Use Cases Convener: Marcos Salvador		14.30-15.30
Wrap-Up Concluding remarks, FIBRE's next steps and future plans.		15.30-16.00
Coffee Break		16.00-16.30
TRAINING SESSION B: OMF-type island hands-on training Thanasis Korakis		16.30-17.30



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6 Collaboration – Participation in external events

Task 6.3 of WP6 deals with collaboration of FIBRE with related projects and initiatives, both for disseminating FIBRE and for gaining experience from ongoing work in other projects. Through participation in project external events (conferences, workshops) of the future Internet and experimentation community, FIBRE partners have the chance to stay up-to-date regarding the latest developments in the field, discuss their ideas and perspective with other colleagues, and use their added knowledge as feedback to the FIBRE project. They are also able to establish more long-term connections with other projects, sustained in the form of mail exchange or other asynchronous communication, even past the end of the events. Additionally, collaboration with industry and policy-makers is pursued, either through interaction during major conferences in the field or through more dedicated discussions between project partners and representatives from industry and government agencies.

Below we describe relevant activities of FIBRE partners during year 1. It must be stressed that attendance in events is not taking place randomly. In fact, part of WP6 work is to identify future events of interest to the project, so that one or more partners can plan their attendance on time, as well as to prepare a plan for potential presentation of FIBRE in these events (request for dedicated timeslot, poster spot, etc.).



6.1 Participation in Conferences and Exhibitions

FIBRE partners have travelled to numerous events, trying to disseminate the project and attract interest. In several of these events, dedicated presentations of the project took place, while in others the project was promoted through informal conversations with event attendants (researchers, industry representatives, policy makers). In the table below we have gathered a list of external event participations during year 1 of the project.

Date	Event	City	Who was there?	Type of presence
07-Nov-11	CHANGE & OFELIA Summer school	Berlin, Germany	Reza Nejabati Christian Esteve	Attendance of FIBRE members
29-Nov-11	Global Future Internet Week (GFIW)	Seoul, South Korea	Michael Stanton	FIBRE cited inside an oral presentation by RNP
01-Feb-12	OpenLab Workshop - Federation architecture & tools	Villiers-le-Mahieu, France	Antonio Abelém José Rezende Serge Fdida Max Ott Dimitris Giatsios Thanasis Korakis	Attendance of FIBRE members. People from different testbed-related research projects were there. FIBRE partners had the chance to present the FIBRE project and its objectives and establish open communication pipes with the other projects.
06-Mar-12	CeBIT 2012	Hannover, Germany	Leandro Ciuffo	FIBRE presented in an oral presentation, accompanied by a FIBRE poster
13-Mar-12	13th GENI Engineering Conference (GEC)	Los Angeles, USA	Thanasis Korakis	WP6 leader attended the 13th GEC. Although no specific presentation or talk was scheduled related to FIBRE, as these events have a restricted agenda, he interacted with GENI partners and brought the FIBRE project to their awareness
16-Apr-12	2 nd Open Network Summit	Santa Clara, USA	Marcos Salvador Alex Moura Fausto Vetter	Attendance of FIBRE members
17-Apr-12	16th International Conference on Optical Network Design and Modelling (ONDM)	Colchester, UK	Dimitra Simeonidou, Reza Nejabati, Mayur Channegowda, Nikolaos Efstathiou	Conference organisers
30-Apr-12	WRNP - RNP's annual workshop	Ouro Preto, Brazil	RNP team Max Ott Leonardo Bergesio	Participation in panel discussion on Future Internet
30-Apr-12	Brazilian Symposium on Computer Networks and Distributed Systems (SBRC)	Ouro Preto, Brazil	All Brazilian partners	FIBRE presentation inside a short-course on SDN
04-May-12	3 rd Workshop on Future Internet Experimentation Research (WPEIF)	Ouro Preto, Brazil	All Brazilian partners Max Ott Leonardo Bergesio	Dedicated talk for FIBRE
10-May-12	Future Internet Assembly	Aalborg, Denmark	Sebastiá Sallent	Presentation "FIBRE & Beyond" by project coordinator (slides available on Slideshare). It was hosted in a special session called "Brazil-EU cooperation in ICT Research and Development"



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10-Jun-12	ICC Workshop on Software Defined Networks	Ottawa, Canada	Max Ott Marcos Salvador	Attendance of FIBRE members
11-Jun-12	TridentCom 2012: 8th International ICST Conference on Testbeds and Research Infrastructures for the Development of Networks and Communities	Thessaloniki, Greece	FIBRE GA was collocated with this conference, so a large number of partners attended	Two FIBRE posters and one FIBRE demo presented at the poster and demo session of the conference. FIBRE members also attended the scientific paper sessions of this leading testbed-related scientific conference
09-Jul-12	14th GENI Engineering Conference (GEC14)	Boston, USA	Max Ott Serge Fdida Cesar Marcondes Iara Machado Alex Moura Thanasis Korakis	Participation in the International Federation Group [4] Presentation of FIBRE-BR by Cesar Marcondes (slides available on Slideshare)
08-Aug-12	INFONOR [5]	Arica, Chile	Sebastiá Sallent	Presentation of FIBRE project on Aug. 9 th . Discussions about the possibility to create a FIBRE island in Chile
31-Aug-12	IoT Forum	Sao Paulo, Brazil	Leandro Ciuffo	Presentation of FIBRE (slides available on Slideshare)
5-Sep-12	Dagstuhl Seminar on SDN	Wadern, Germany	Christian Esteve	Attendance of FIBRE member
11-Sep-12	CFI 2012	Seoul, Korea	Serge Fdida	Serge Fdida is on the Steering Committee of AsiaFi since its creation. He has been also supporting the development of a Future Internet initiative in Korea, acting as the General co-chair for CFI and GFIS. His participation provided a dissemination opportunity of the activities developed in FIBRE, presented as a good example of a European international project.
13-Sep-12	Global Future Internet Summit	Seoul, Korea	Serge Fdida	
13-Sep-12	Brazilian Symposium on Telecommunications (SBrT 2012)	Brasilia, Brazil	Kleber Cardoso	Attendance of FIBRE member
17-Sep-12	ECOC 2012	Amsterdam, Netherlands	Mayur Channegowda, Reza Nejabati, Dimitra Symeonidou	Publication (FIBRE acknowledged)
24-Sep-12	Seminário Capes de Tecnologia da Informação	Brasilia, Brazil	Antonio Abelém	Attendance of FIBRE member
26-Sep-12	ICT Proposers Day 2012	Warsaw, Poland	Sebastiá Sallent	FIBRE presented in dedicated timeslot by project's coordinator, with emphasis on practices and experiences within organization and running an EU-Brazil project



6.2 Collaboration with relevant projects and initiatives

6.2.1 FIRESTATION

FIRESTATION monitors FIRE facilities and projects and plays the role of an active hub between demand and offer for network experimentation. In order to fulfil its mission effectively, FIRESTATION frequently collects information from FI projects related to the use of the facilities and the nature of the experiments. FIBRE was requested to provide information on these subjects, in the form of an organized questionnaire, and responded promptly.

6.2.2 OFELIA

Collaboration between FIBRE and OFELIA [6] is something inevitable due to the amount of topics they share. Moreover, although FIBRE has its own directives and identity, one of its goals is to extend parts of OFELIA both geographically and in terms of infrastructure and capacity.

Following this empathy, FIBRE in Europe develops its own infrastructure to deploy selected show cases which demonstrate the capabilities of the federated testbed at the same time that both projects interconnect their respective facilities by federating or by locally interconnecting them, resulting in an extended final infrastructure. In this direction FIBRE provides OFELIA with links to Brazil and South America.

In the other direction, OFELIA by means of the partners which are present in both projects provided an initial know-how of the configurations needed and it also provided one of the software tools to automate the management and use of the testbed, the OCF. The OCF is the main beneficiary of this collaboration. Thanks to FIBRE, the OCF was released in a public repository making it more easily available for everyone. Moreover, the features identified as needed are published in the Github OCF's site [7] so that all the OCF developers, both from OFELIA and FIBRE, and any person interested in it, can be aware of them. Furthermore, the use of OCF by FIBRE partners deploying new OpenFlow islands was an enormous source of improvements and bug discovering which together with the increased man power available to develop over the OCF made it much more stable and usable.

This collaboration enriches both projects and allows to progress in a parallel way although keeping their independency.

6.2.3 OPENLAB

Collaboration between FIBRE and OpenLab [8] takes place mainly in the field of federation technologies. In particular, the departing point for both projects, as far as federation is concerned, is the Slice-Based Federation Architecture (SFA) [9]. This does not by any means imply identical implementations, as FIBRE has its own goals, which generate project-specific requirements. These requirements have been in part mentioned in Deliverables 2.1 and 3.1 (available online at the deliverables section of [1]), and will be made even clearer in the Deliverable 4.1: Report on the Federation Requirements Analysis, to be released at the same time with the present. Furthermore, bonds between the two projects are strengthened by partners UPMC, UTH and NICTA, which belong to the consortia of both FIBRE and OpenLab.

An example of the collaboration between the two projects was the Federation Workshop organized by OpenLab in Villiers-le-Mahieu in February (see section 6.1). Apart from representatives of the three aforementioned partners, FIBRE members from Brazilian partners were also invited and attended the meeting, having the opportunity to participate in the discussions and share their thoughts about testbed federation technologies.



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6.3 Collaboration with industry

Although no official meeting between FIBRE and industry representatives has taken place during year 1 of the project, some of the FIBRE partners have been discussing and interacting with industry players, whose representatives become aware of the project facts via these discussions.

Discussions with representatives from JUNIPER, BROCADE, DATACOM, PadTec and WXBR have taken place. In the last workshop of FIBRE partner RNP (30/4/2012) there was also a presentation from Hewlett Packard (HP) about SDN. Additionally, it is worth mentioning that there are subscribers from BROCADE, PadTec and WXBR in FIBRE's public mailing list.

FIBRE's intent is to further stress its interaction with industry players, and in a more coordinated manner. As a first step we mention the industry panel session in the upcoming first FIBRE workshop in Salvador (cf. section 5.2). More details and planned actions will be described in Deliverable 6.3 (due in M17), which will present the project's updated dissemination plan for the continuation of the project, based on the first year experience.



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6.4 Collaboration with government agencies and policy makers

The following two events during year 1 involved interaction between FIBRE and government agencies.

- A closed meeting named “Agenda for FI research in Brazil” was held in Brasilia on 28th May 2012, aimed at persuading Brazilian funding agencies to create R&D programs focused on Future Internet experimentation.
- FIRE Workshop on Brazil & EU cooperation in ICT R&D, collocated with the Future Internet Assembly in May 2012. There was a dedicated presentation of FIBRE by the project coordinator (cf. section 6.1).

An updated dissemination plan including a more stressed interaction with government agencies and policy makers will be presented in the upcoming deliverable 6.3 (due in M17).

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