



Project Number: **248676**
Project Acronym: **FORESTA**
Project Title: **Fostering the Research Dimension of Science and Technology Agreements**
Instrument: CSA - Support Action
Thematic Priority: FP7-ICT-2009-4-9.1 International cooperation

D2.3 Report on Conference in Colombia

Due Date:	31 March, 2011
Submission Date:	9 March, 2011
Start Date of Project:	01/01/2010
Duration of Project:	24 months
Partner in Charge of Deliverable	CINTEL
Version Status	FINAL
Dissemination Level	PU
File Name:	110308_FORESTA_WP2_D2 3-Report-Conference-Colombia_FINAL.docx

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Revision and changes tracking

Date	Changes	Editor
29 Dec 2010	First draft	CINTEL
20 Jan 2011	Revision and feedback	TESEO
15 Feb 2011	Second draft	CINTEL
22 Feb 2011	Revision and feedback	TESEO
1 Mar 2011	Third draft	CINTEL
3 Mar 2011	Revision and feedback on fourth draft	TESEO
7 Mar 2011	Fourth draft	CINTEL
8 Mar 2011	Final version	TESEO

1. EXECUTIVE SUMMARY

The object of this deliverable is to present the Report on the FORESTA project Conference in Colombia, which was initially scheduled for M15 (March 2011), but was rescheduled for October 27th and 28th, 2010 (M10).

This event corresponds with Task 2.2.2 for Colombia related to the Work package 2: "Organisation of Conferences" concerning Policy Dialogue meetings, as set out in the Description of Work for the FORESTA project.

The aim of the conference was to gather Colombia's research community around ICT research topics prioritized by Colombian Information Society. The Conference served to integrate research communities from academic circles, research centres, industry and other stakeholders involved in the design or implementation of ICT policies.

The FORESTA Conference was held in the framework of ANDICOM 2010, the 25th staging of this annual International ICT Congress organized by CINTEL in Cartagena de Indias, Colombia, during the last week of October. This was considered the appropriate setting to achieve the objectives of FORESTA due to the participation of policy makers and representatives of local and international cooperation agencies as well as its pre-eminence in the region as an ICT sector event.

The FORESTA Conference took place in two phases: the first one included presentations of national and international stakeholders and the second part used a panel format dealing with different topics related directly to the FORESTA project and according to the needs of the country.

In quantitative terms, the Conference achieved the requirements set out by the FORESTA project Work Description. Five European experts from industry and academia took part in the event. The sessions were attended by 59 participants exceeding the minimum requirement by 9.

Qualitatively, the Conference also attained the expected impact of explaining and emphasising the importance of the international cooperation, not least because of the close and active involvement of the research community in the policy dialogue and because of the themes and methodology followed during the event.

One of the main concerns of the Colombian scientific community is turning investments in R&D into products and services. In addition, the National government represented by COLCIENCIAS wants to boost a model for the development of joint projects which comprises University-Industry-State-Society and to do this through increase industry investment in Science, Technology and Innovation.

Therefore, COLCIENCIAS is redesigning its funding policies and creating a financial assistance programme for patenting, even if these patents are not necessarily part of a complete research project.

Both the budget and visibility of research in Colombia is low. Furthermore, universities are becoming "islands of research" and do not have enough contact with industry.

Colombian researchers have little knowledge about the operation of networks, groups, or research contacts in Europe. Currently there is no representation of Colombia in PEOPLE projects under the Seventh Framework Programme.

It is worth drawing attention to the following main recommendations resulting from the analysis of our experience in the Conference:

- There is interest from the Colombian scientific community to understand the mechanisms of submitting proposals seeking EU Framework Programme (FP7 and future programmes) funding, but wider dissemination and support is needed.
- Colombia through its Focal Point (COLCIENCIAS) should establish priorities and contact points in strategic areas in order to have more dynamic participation in the next EU FP7 calls for proposals.
- The National Contact Point (COLCIENCIAS) must improve the understanding of the different type of proposals, their presentation formats, evaluation criteria and response times set by the EU. This action is necessary for both national and international projects.
- Colombian researchers should give high priority to becoming proficient in other languages, which is one of their main weaknesses; particularly English, the reporting language of EU-funded research projects and the most common for international cooperation projects.
- In order to participate in international R&D&I projects, Colombian professionals should better coordinate their efforts and cooperate more as well as develop professional, business and human skills.

2. INTRODUCTION

FORESTA is a project dedicated to foster research cooperation between Latin America and the European Union in the field of Information and Communication Technologies (ICT). It will also provide advice, training, communication networks and shared knowledge in order to offer useful inputs to ICT policy decision makers. The project seeks to bring to the institutional level, a relevant and meaningful ICT research policy dialogue through activities (e.g. conferences) or through analytical work on current research cooperation between EU and Latin America.

This document describes in detail the FORESTA Conference which was held on October 27th and 28th 2010, in Cartagena de Indias, Colombia, during the International ICT Congress, ANDICOM 2010, an event organized by CINTEL. The objectives and results of the conference as part of the overall FORESTA objectives are highlighted, as well as the information about attendance and organisation.

The aim of the conference was to bring together Colombia's research community around the main ICT focus areas and to strengthen overall ICT cooperation between the EU and Colombia.

The Conference engaged the research communities by:

- **Informing** them about the Policy Dialogue;
- **Stimulating their input to the Policy Dialogue** (e.g. suggesting research topics which should be addressed primarily in international cooperation);
- **Encouraging contact** and initiation of collaborative projects with European counterparts¹.

The present report is composed of three sections which describe the methodology, structure and results of the FORESTA Conference.

The first section of the report presents the planning and organisation stages of the event. It includes a summary of the activities during the planning stage of the event, like the coordination with the events of the PRO-IDEAL PLUS project, the identification and booking of the venue, the definition of the conference agenda, and the confirmation of the speakers.

The second section describes the development of the event, the communication strategy, speakers, list of participants and the summary of the topics discussed at the event.

The third section then presents an analysis of the requirements to set up the event in accordance with the **Description of Work (DoW)** in Work Package 2 (Organisation of the conferences in coordination with Policy Dialogue meetings) and compliance with these requirements by Colombia.

The last section shows the main conclusions and recommendations that were generated during the conference.

¹ Seventh Framework Programme, Annex I "Description of Work" Version 7 – FORESTA project, October 2009.

3. PLANNING AND ORGANIZATION OF THE CONFERENCE

3.1. FORESTA and PRO-IDEAL PLUS conference coordination

The aim of PRO-IDEAL PLUS is to strengthen the research dimension of the Information Society policy dialogues in the target region, to establish a sustainable ICT research community and to develop synergies. PRO-IDEAL PLUS will equally enhance the international cooperation of stakeholders within the target countries among themselves, thus leveraging best practices, e.g. from those countries that already have an S&T agreement.

Thus, the FORESTA and PRO-IDEAL PLUS projects both focus on the “research dimension of policy dialogue” and both consider holding events as a strategy to provide inputs to policy dialogue. The FORESTA DoW requires FORESTA conferences to be planned taking into account synergies with the PRO-IDEAL PLUS project. Accordingly, an MoU was concluded between PRO-IDEAL PLUS and FORESTA to take account of this condition.

The initial idea was to hold the PRO-IDEAL PLUS event before the FORESTA Conference, in order to develop input for the policy dialogue level.

A coordination meeting was organised by local FORESTA project members with the stakeholders of both projects in Bogota, Colombia, on September 15th 2010. The purpose of the meeting was to present and promote both projects (PRO-IDEAL PLUS and FORESTA) and their events to the stakeholders, especially those from the government, and to encourage their participation. The Coordination meeting made it possible to define how to implement each project’s events while achieving the greatest impact for both FORESTA and PRO-IDEAL PLUS.

A list of upcoming events was presented and the meeting attendees were invited to participate in them.

Project event	Name of the event	Date and place
FORESTA and PRO-IDEAL PLUS	ICT 2010: Digitally Driven	September 26th- 28th 2010 Brussels, Belgium
FORESTA	FORESTA Conference (ANDICOM 2010)	October 27 th -28 th 2010 Cartagena de Indias, Colombia
PRO-IDEAL PLUS	ICT FORUM	November 11 th 2010 Medellin, Colombia
PRO-IDEAL PLUS	ICT DAY	November 12 th 2010 Medellin, Colombia

Table 1 – List of upcoming events of FORESTA and PRO-IDEAL PLUS

However, while the PRO-IDEAL PLUS event was initially programmed for February 2011, it was subsequently rescheduled for November 2010 in Medellin.

In the FORESTA project, the dates of the Colombia Conference were also changed from March 2011 to October 2010 in order to take advantage of ANDICOM, the International ICT

Congress organized by CINTEL. It was decided to hold the FORESTA conference within ANDICOM. This ruled out the previously foreseen cooperation between FORESTA and PRO-IDEAL PLUS for the FORESTA Colombia conference.

A list of participants to the FORESTA / PRO-IDEAL PLUS coordination meeting is provided in ANNEX 1 along with a copy of the meeting agenda in ANNEX 2.



Figure 1 – Attendees of the Coordination Meeting FORESTA – PRO-IDEAL PLUS

3.2. *Planning the FORESTA Conference*

3.2.1. *Identification, booking and description of the venue*

The International ICT Congress – ANDICOM 2010² is the most important event of the ICT sector in Latin America and the Caribbean. It is annually held in Cartagena de Indias, Colombia during the last week of October. Its format is academic and includes a commercial exhibit and business rounds.

ANDICOM was selected as the event in which to run the FORESTA Conference because:

- CINTEL, the Colombian partner of the FORESTA project, organizes this Congress;
- It has a high attendance rate;
- Participation by policy makers and representatives of national and international cooperation is assured;
- It is a very high profile event which presents the most recent trends in the ICT sector and which national authorities also use to announce important decisions on ICT.

Participants also include key figures of industry, government and academic circles, who meet in order to discuss the needs of the ICT sector and to identify relevant solutions. For 2010, the 25th edition of ANDICOM was held in the Convention Centre of Las Americas Hotel. The FORESTA Conference, although held in the framework of ANDICOM, took place elsewhere.

The conference rooms were booked by CINTEL for both sessions (Wednesday, October 27th and Thursday, October 28th) and consisted of:

- ***Americo Vespucci Conference Room (October 27th)***

²For more information about ANDICOM 2010, see the attached documents.

- Audience capacity: 80 persons;
 - Technical equipment: Computer (1), projector (1), sound, wireless microphones (2), screen (1), speaker stand (1), camera (1);
 - Personnel: Official translator (1), aide (1);
 - Foods and drinks: coffee station (water, coffee and tea).
- **Lobby Bar La Pinta (October 28th)**
 - Audience capacity: 80 persons;
 - Technical equipment: Computer (1), projector (1), sound, wireless microphones (2), screen (1), speaker stand (1), camera (1);
 - Personnel: Official translator (1), aide (1), waiters (3);
 - Foods and drinks: coffee station (water, coffee and tea) and lunch (buffet).

3.2.2. FORESTA Conference Format

Due to the conference format chosen, it was decided that the Conference would be divided into two sessions. One session would begin on Wednesday, October 27th in the afternoon and the other on Thursday, October 28th in the morning.

The Conference format was designed with the following criteria in order to achieve its objectives:

- **Registration:** In order to obtain basic information about participants, the conference room assistant passed around a chart for every participant to fill out his/her name, entity, position, email and phone number.
- **Event opening:** The welcome speeches were made by Mr. Manuel Martinez Niño, Executive Director of CINTEL and Mr. Mauro Bianchi, Managing Director of TESEO (Belgium), the Coordinator of the FORESTA Project. The aim of the speeches was to provide the audience with the project context and objectives and to describe the methodology of the Conference sessions.
- **First plenary session:** For this session, it was decided to review topics strongly related to the FORESTA project, taking into account the government position presented by COLCIENCIAS regarding the S&T&I policy. Mr Bianchi of TESEO addressed some of FORESTA's main components and described the framework in which it is being developed. Additionally, the French company 3GPP (France) described its technology development standards and their impact. In Colombia, mobile telephony standards receive high priority. In this session, ITESM (Mexico) also presented the successful experience of ICT R&D agreements with the EU.
- **Panels:** Seeking participation by representatives from government, the academy, industry and the European experts, the second part of the Conference consisted of four different panels, each one specifically aligned with the project:
 - **Panel 1: COLOMBIA: ENHANCING INTERNATIONAL COOPERATION:**
 - ▶ Objective: To identify, analyze and discuss Colombian current initiatives towards the development of the international cooperation and Colombia's expectations from participation within the international context specifically in S&T&I.
 - **Panel 2: DEVELOPING HUMAN RESOURCES FOR R&D&I:**

- ▶ Objective: To identify, analyze and discuss the required global qualifications of Human Resources for undertaking R&D&I international projects.
- **Panel 3: TRENDS IN ICT RESEARCH TOPICS – EU-LATAM:**
 - ▶ Objective: To identify, analyze and discuss the current trends regarding ICT research topics between Europe and Latin America.
- **Panel 4: ENCOURAGING CORPORATE R&D&I:**
 - ▶ Objective: To identify, analyze and discuss the current benefits, concerns and opportunities for undertaking R&D&I international projects at corporate level.
- **Closing session:** At the end of the event, experts gave some key concepts to summarize and close the Conference and took the opportunity to thank the assistants and speakers for their participation. The closing session was considered a valuable extra opportunity to invite participants to get involved in the project.

To assist each panel moderator and their respective panellists, CINTEL drew up a document called a “PANEL GUIDE”. This document included general information about the speakers, panel objectives, academic program structure, methodology of presentations and equipment available for the presentation. Copies may be found in ANNEX 7.

3.2.3. The Conference agenda

The FORESTA Conference agenda was agreed in consultation with the partners in the FORESTA consortium and decided at the project consortium meeting in Brussels, Belgium on October 1st 2010, following FORESTA involvement with ICT 2010: Digitally Driven event.



Figure 2 – FORESTA Project meeting – Brussels, Belgium October 1st 2010

A copy of the FORESTA Conference agenda may be found at ANNEX 5.

3.2.4. Invitation of speakers

In order to identify the speakers for the FORESTA Conference, it was necessary to carry out the Consortium Coordination Meeting described in section 3.1 above. Several internal meetings were organized in CINTEL to discuss the profile of the speakers and participating institutions required. It was decided that speakers would be selected at the national and international level using the following main criteria:

- Their experience with the topics pertaining to the FORESTA project;
- They had previously been identified as representatives of institutions considered as stakeholders.

To meet the objectives of the Conference, the selection of themes and speakers was done according to the Description of Work guidelines, as well as the needs of Colombia regarding international cooperation with the EU and the ICT policy dialogue. Taking account of the above criteria, CINTEL asked people among its business partners who fulfil the required profile, about their interest and availability to participate in the conference activities and travel to Cartagena.

In accordance with the DoW, and in preparation for the conference, CINTEL sent a letter of invitation to national and international speakers. This letter explained the objective and subject of the presentation which they were being asked to make and included a brochure of the FORESTA project. For the moderators, CINTEL developed a “panel guide” with the following information:

- General information for speakers;
- Panel objective;
- Academic program structure;
- Methodology of presentation;
- Questions;
- Equipment available for the presentation;
- Contacts and general coordination of the event.

Although European speakers were clearly informed that all their Conference travel expenses were covered by FORESTA, the project did not have to cover all these expenses because two of them had already confirmed their participation in ANDICOM, and their expenses were covered by this event. Others were located in Bogota and the project only had to pay their travel expenses from this city to Cartagena (round trip).

Examples of letters of invitation and the “panel guide” for each panel are available in ANNEX 6 and ANNEX 7 respectively.

3.2.5. *Promotion of the Conference*

In order to promote the FORESTA Conference, CINTEL carried out several different promotional activities which are summarized below:

Type of promotion	Dissemination through	Description of the activity - Target audience
Public promotion	NotiCINTEL (electronic newsletter) ANDICOM website	<p>CINTEL promoted the FORESTA Conference in advance through its own information services: NotiCINTEL and through the ANDICOM website, inviting the main stakeholders of the project and other parties.</p> <p>It is worth noting that information on the project was published on the ANDICOM website. In addition, the ANDICOM Agenda included the FORESTA Conference Agenda, which was sent by post, fax and e-mail.</p> <p>Also, CINTEL used social networks such as Facebook to show the different activities and meetings of the FORESTA project through the “CINTELColombia” group.</p>
Institutional promotion	Presentations and meetings Internal Workshops Virtual meetings	<p>CINTEL held meetings, conducted internal workshops and made private presentations about the FORESTA project with and to representatives of industry, academia and government who were considered to be actual or potential stakeholders in the project. Some of these meetings involved:</p> <ul style="list-style-type: none"> • Meeting with the Minister of ICT; • Meeting with the National Planning Department (DNP); • Meeting with COLCIENCIAS; • Meeting with the Council of Electronics, Telecommunications and Informatics - ETI (Program from COLCIENCIAS); • Meeting with EPM – Empresas Públicas de Medellín; • Meeting with the coordinator of PRO IDEAL PLUS in Colombia; • Meeting with the Innovation Committee – CINTEL; • Individual meetings with specific stakeholders from the academia, industry and government.

Table 2 – Promotion activities of the FORESTA Conference

Below, there are some examples of the media and materials used in the promotion of the Conference.

From the ANDICOM website:

FORESTA promoted on the website of ANDICOM 2010

The screenshot shows the ANDICOM 2010 website. At the top, the logo for 'andicom 2010 Congreso Internacional de TIC' is displayed alongside the slogan 'Te conecta...'. Below the logo is a navigation menu with options like 'Acerca de Andicom', 'Sede', 'Aerolíneas', 'Alojamiento', and 'Streaming'. A search bar is also present. The main content area features a section titled 'Redes, Servicios y Contenidos: Los negocios de la próxima década en América Latina' for the dates 'Octubre 27 - 29 Cartagena de Indias'. A sidebar on the left lists various partners and sponsors including TVPC, 3G Americas, First, SALA 3D, and Pyramid Research. The main text area is titled 'Foresta' and describes the project's goal to promote research cooperation between the EU and Latin America. It mentions the DVB-T standard and the involvement of five countries. A contact email 'ygarcia@intel.org.co' is provided. At the bottom, there are social media icons for Facebook, YouTube, LinkedIn, and Twitter, along with the CINTEL logo and contact information.

FORESTA on the agenda of ANDICOM 2010

The screenshot shows the ANDICOM 2010 agenda for the 'SALÓN AMÉRICO VESPUCIO' event. It lists two sessions: one from 9:30-10:30 on 'Fomentando la Dimensión Investigativa en Acuerdos de Ciencia y Tecnología' and another from 14:00-16:00 on 'Cooperación científica entre Europa y Latinoamérica en investigación y desarrollo en Internet 3D'. Both sessions are part of the 'PROYECTOS COMUNIDAD EUROPEA - FORESTA' project. Below the agenda, there is a list of other projects and a seminar: 'PROYECTOS 7PM - Cooperación entre América Latina y la Comunidad Europea', 'Foresta: Fomentando la dimensión de acuerdos de Investigación de Ciencia y Tecnología', 'Sala 3D: Investigación en generación de contenidos en 3D', 'First: Implementando la cooperación entre Europa y América Latina en Internet del Futuro y Componentes TIC', and 'Seminarío Perspectivas de la Banda Ancha Móvil para las Américas - Evolución de Estándares de Tecnologías 3GPP - 3G Américas'. The bottom of the page features social media icons and the CINTEL logo.

NotiCINTEL Newsletter:

NotiCINTEL 882 - October 21st 2010, CINTEL promoted the FORESTA Conference.



4. IMPLEMENTATION OF THE CONFERENCE

The FORESTA Conference was held within the framework of the ANDICOM 2010 International ICT Congress organized by CINTEL, in Cartagena de Indias, Colombia. The actual venue for the Conference was the Americo Vespucci Conference Room at the Hotel Las Americas in Cartagena de Indias.

The objective of the Conference was to enhance research cooperation in Colombia on the basis of priorities agreed at policy dialogue level as a result of participation by academia, industry and government and by all the stakeholders involved in the design and implementation of ICT policies, while taking into account that Colombia has strengthened its cooperation with the EU in recent years.

Initially, the agenda had been scheduled for two sessions, the first on Wednesday, October 27th in the afternoon and the second on Thursday, October 28th, in the morning. However, a change was forced on the FORESTA Project timetables due to a last-minute decision by the Ministry of ICT, to present the new national ICT Plan, VIVE DIGITAL at ANDICOM. Consequently, the agenda of the whole event had to be adjusted and the second session of the FORESTA Conference had to be moved and held on Thursday, October 28th, at noon in the form of a working lunch.

The initial session of the Conference consisted of a welcome speech by Mr. Manuel Martinez Niño, the Executive Director of CINTEL, followed by the presentation of the Colombian Science and Technology Plan by COLCIENCIAS. The Managing Director of TESEO Sprl. from Belgium, which is a partner in the FORESTA consortium, introduced FORESTA and the European Union's Seventh Framework Programme (FP7). A representative of 3GPP then spoke as a representative of European industry, about the trends in the development of mobile telephony standards such as GSM/UMTS, CDMA, TD-LTE and LTE, among others.

In addition, ITESM was invited to participate in order to share the successful experience of Mexico in international cooperation within EU Framework Programmes, taking into account that this country is one of the most important partners for the EU in the development of projects related to S&T.

Four panel groups were organised as follows:

Panel 1: Colombia: Enhancing International Cooperation

This subject was selected since international cooperation is one of the central topics of the FORESTA project. During this panel the aim was to identify the main tools for enhancing international cooperation in Colombia, mainly in projects related to S&T and/or ICT. The project received the most advanced input in International Cooperation from the EU-Colombia partnership.

Panel 2: Developing Human Resources for R&D&I

Taking into account that the human resource is a key factor to develop projects under international cooperation, this panel seek to identify the skills that Colombian researchers require to integrate a consortium.

Panel 3: Trends in ICT Research Topics – EU-Latin America

This panel was developed in order to identify the priorities in ICT Research topics from Colombia and the EU. For this reason, it was necessary to count on academic representatives at national and international level.

Panel 4: Encouraging Corporate R&D&I

In order to identify the ways to encourage the R&D&I at the corporate level, it was necessary that participation in this panel consist mainly of industry representatives.

Among the moderators and the panellists, there were five European experts from industry and academia and Colombian representatives also from industry, academia and the government.

A full description of the event is presented below. Copies of all presentation slides may be found in ANNEX 9.

4.1. FORESTA Conference – Session 1, Wednesday, October 27th 2010

4.1.1. Welcome

D. Manuel Martinez Niño

Executive Director of CINTEL

D. Mauro Bianchi

*Managing Director of TESEO Sprl,
Belgium*

Mr. Manuel Martinez Niño, Executive Director of CINTEL and Mr. Mauro Bianchi, Co-founder and Managing Director of TESEO Sprl, the coordinator of the project, welcomed the participants and opened the event by thanking them for their assistance and the interest shown and willingness to collaborate in this project.

Mr. Bianchi encouraged the participants to work together in order to identify the key research issues to be addressed in the future and to increase cooperation between Europe and Latin America.



Figure 3– Mr. Martinez opening the FORESTA Conference



Figure 4 – Mr. Bianchi welcoming the participants as the General Coordinator of FORESTA

4.1.2. Colombian Science and Technology Plan

D. Oswaldo Castillo Navetty Ph. D

*Coordinator, National Electronic
Telecommunications and Informatics
Plan – COLCIENCIAS, Colombia*

Dr Oswaldo Castillo Navetty, Coordinator of the National Electronic Telecommunications and Informatics Plan of COLCIENCIAS, presented the Colombian S&T Plan and COLCIENCIAS's tools to encourage S&T and research in related topics.

COLCIENCIAS now faces the challenge of coordinating the National System of Science, Technology and Innovation (SNCTI), of creating synergies and interactions to promote the S&T&I culture and enabling people to get involved in the development of research strategies and agendas.

Mr. Castillo showed the central points of the COLCIENCIAS plan:

- Strengthening Institutional Financial Capacity;
- The regionalization of Science;
- Model Integration: University - Business – State – Society;
- Comprehensive training process in Science, Technology and Innovation;
- The establishment of a systemic model in Science, Technology and Innovation;
- Strengthening institutional modernization.

Mr. Castillo also presented the funding tools of the Plan:

- Co-financing;
- Technological risk-sharing;
- Linking researchers in companies;
- Financing patents or trademarked technologies;
- Business technological missions;

- Foreign training programmes for managers and personnel involved in innovative research and development;
- Incentives for technological innovation via credit line BANCOLDEX³ – COLCIENCIAS;
- Promotion of young researchers and innovators;
- International cooperation on innovation: Iberoeka innovation project;
- Tax incentives for research and innovation:
 - Tax credit for investment or donations;
 - Exemption from income tax on software and medicine production;
 - VAT-exemption on import of equipment.



Figure 5 – Mr. Castillo from COLCIENCIAS, presenting the Colombian Science and Technology Plan

4.1.3. FP7: A powerful tool to foster International Cooperation in Research & Development

D. Mauro Bianchi

*Managing Director of TESEO Sprl
Belgium*

Mr. Mauro Bianchi, Managing Director of TESEO, presented the European Union’s Seventh Framework Programme (FP7) for Research and Technological Development (2007-2013), the key EU tool to respond to Europe’s needs in terms of jobs and competitiveness and to maintain leadership in the global knowledge economy. FP7 is thus the main European funding instrument in the field of R&D. In addition, Mr. Bianchi explained the position of FORESTA within FP7.

The objectives of the EU international cooperation strategy are designed to contribute to sustainable development worldwide and to foster Europe’s S&T excellence. Mr. Bianchi

³ BANCOLDEX is the national agency for the business development of the Colombian government. It is a credit institution that operates as a “second-tier bank” financing the needs of working capital and fixed assets of viable projects or companies of all sizes and all sectors of the Colombian economy, except agriculture.

commented on Europe's need to promote its interests and values more assertively and with a spirit of reciprocity and mutual benefit.

In addition, Mr. Bianchi presented the four pillars of international cooperation under the FP7 and their budget:

<p><u>COOPERATION</u></p> <p>Thematic transnational research collaboration</p> <p>€3.5 billion</p>	<p><u>IDEAS</u></p> <p>Funding to basic or frontier research</p> <p>€7.51 billion</p>
<p><u>PEOPLE</u></p> <p>Support to training, mobility and professional development</p> <p>€4.75 billion</p>	<p><u>CAPACITIES</u></p> <p>Horizontal programmes including INCO</p> <p>€4.1 billion</p>

Figure 6 –The four pillars of international cooperation under the EU's Seventh Framework Programme

Each pillar has different thematic programmes and issues calls for proposals according to the respective thematic programmes.

The cooperation pillar is subdivided into ten topics and all the cooperation calls for proposals are open to third country participation:

- i. Health;
- ii. KBBE;
- iii. ICT;**
- iv. NMP;
- v. Energy;
- vi. Environment;
- vii. Transport;
- viii. SSH;
- ix. Space;
- x. Security.

Mr. Bianchi explained that when industry and other organisations from non-EU countries seek to develop International Cooperation projects with financial assistance from EU funding programmes, it is of key importance to identify priorities and topics which are aligned with the interests of Europe. Therefore, participation in these projects requires high-capacity partners capable of bringing significant added value. Potential partners must also be committed to achieving the objectives of the EU programme as well as their own project proposal. He also explained that applications for funding are highly competitive and only the best projects receive funding.

The priorities which should be considered by those seeking EU funding for international ICT cooperation are as follows:

- Europe cannot cooperate with all countries on all topics, therefore consider carefully;
 - The choice of third country partners;
 - The choice of research topics;
 - The minimum critical-mass of resources necessary and whether or not this can be shown to be guaranteed;
- Research priorities for cooperation should be ‘inspired’ by joint inputs from industry, academia and research institutes;
- Medium- to long-term proactive approach;
- Alignment with technology platforms is likely to facilitate cooperation and access to funds.

Finally, the role of FORESTA is to support/facilitate research dimensions of ICT policy dialogue between LA countries with S&T Agreement with the EU, identifying key areas for cooperation with in ICT research and presenting the state-of-the-art with reference to international cooperation initiatives (within FP7 and other European programmes). The aim is to identify international cooperation opportunities for Latin American countries.



Figure 7 - Mr. Bianchi presenting Colombian participation in the Seventh Framework Programme

4.1.4. The importance of technology development standards 3GPP

D. Kevin Flynn

*Director of Marketing and
Communications, 3GPP*

Considering the significant industry participation and the interest in mobile applications within the FORESTA Conference, Mr. Kevin Flynn, Director of Marketing and Communications of 3GPP, presented the 3GPP Standards Update, showing the evolution of the standards from 1988 to 2010 and outlining future trends. In addition, he highlighted the main reasons why standards are changing:

- Competitors are now working together;

- Convergence on IMT-Advanced Standard for 4G;
- LTE is the first choice for most Network Operators.

Mr. Flynn also described:

- The 3GPP 3rd Generation Partnership Project;
- Specifications, reports and studies for collaborative work with Partners;
- 3GPP Organizational Partners that are standards institutions on a regional and national scale;
- Participation of companies through membership in one of the 6 Partners.

As a conclusion Mr. Flynn clarified that the standards are changing as technology evolves.



Figure 8 - Mr. Flynn presenting the standards 3GPP

4.1.5. ICT R&D agreements between the EU and third countries: Mexico

D. Miguel Gonzalez, PhD.

*Director of the Master Programmes in
Computer Science ITESM, México*

Mr. Miguel Gonzalez, PhD. in Computer Science and Director of the Master programmes in Computer Science at the Monterrey Institute of Technology and Higher Education -ITESM, presented key examples of successful R&D cooperation: “20 years of the EU- LA collaboration” through a video-link from Mexico.

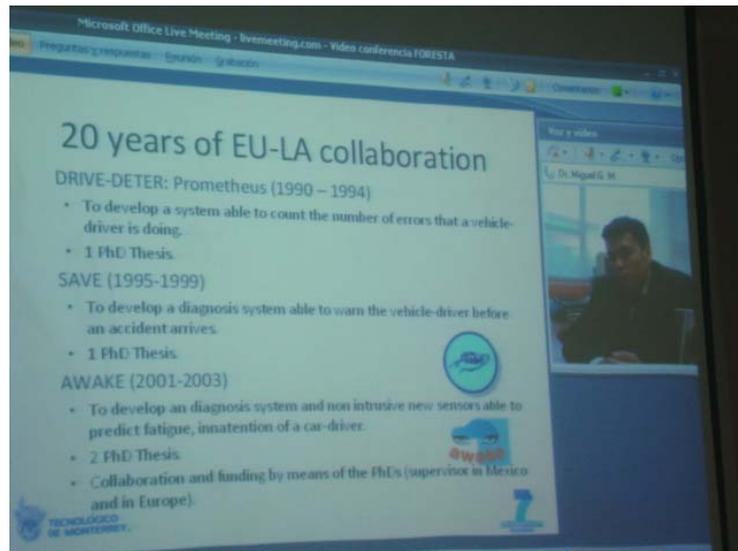


Figure 9 – Mr. Gonzalez from Mexico in the video conference

The topics of the presentation were structured as follows:

- European Commission agendas versus projects agendas;
- Focus on specific topics;
- Working with the right partners.

Among the projects that Mexico has developed in association with EU financial assistance programmes during the last 20 years, Mr. Gonzalez spoke about the following:

- DRIVE-DETER: Prometheus (1990 – 1994);
- SAVE (1995-1999);
- AWAKE (2001-2003);
- ASK-IT: (2003-2007);
- SENSATION: (2004-2008);
- OASIS: (2008-2011).

ITESM emphasised the main lessons learned through working in consortiums with partners from other countries, specifically from the EU:

- Is necessary to focus on a research topic;
- Is important to identify the priorities of the country and work based on such grounds;
- The projects must be oriented not only towards basic research, but also towards development and application;
- Cooperation is an international and multidisciplinary activity;
- Is necessary to be aware of and to participate in well established projects;

Mr. Gonzalez made a summary of current international cooperation between Mexico and the EU:

- 10 national projects funded;

- 12 projects with national grants;
- 50 network partners;
- “start-up”: softdecisions.com (5 employees);
- Development of specialized courses;
- ITS-México.

4.1.6. PANEL 1: Colombia - Enhancing International Cooperation

D. Juan Sebastián Rodríguez

*International Office – Advisor,
COLCIENCIAS, Colombia*

D. Henry Carrillo

*Direction of International Cooperation,
Accion Social, Advisor to the Presidency
of the Republic, Colombia*

Moderator – D. Gonzalo Ulloa

*Dean of the Faculty of Engineering,
Universidad ICESI, Representative of the
universities for the board of CINTEL*

The objective of this panel was to identify, analyze and discuss current Colombian initiatives towards the development of international cooperation and expectations for participation in international projects.

Representatives from academia (Universidad ICESI) and the government (COLCIENCIAS and ACCION SOCIAL) participated in this panel.

During this panel the main tools for international cooperation and the procedures required to take part in projects with EU funding were presented. In addition, the mechanisms available in Colombia to create a consortium were discussed.

For COLCIENCIAS, Colombian stakeholder participation in research projects with the EU and the existence of the Focal Point, have been activities for visibility of Colombian research capabilities. This has meant better bilateral cooperation specifically with Germany, Spain, France, Switzerland and United Kingdom. However, according to Mr. Rodriguez it is not enough and the aim is to continue scaling up partnerships and strengthen research linkages.

Furthermore, COLCIENCIAS believes that for Colombian research groups to submit a project to the EU, it is necessary:

- To develop a supply and demand portfolio and interact with potential EU partners;
- Identification, location and contact of potential partners to develop consortia;
- Get advice from COLCIENCIAS through the International Group on how to organize the initial stages of application and seek official partners;
- Exchange emails and define interests with partners;
- Draw a roadmap to define specific actions;
- Apply to calls for mobility travel stipends;
- Search national funding for the project according to research subject area:
 - For the National component: Through COLCIENCIAS and calls from different programmes;

- For the International component: through multilateral funding and private organizations.

The COLCIENCIAS International Group seeks and promotes cooperation sources according to priority areas of knowledge and with a geopolitical perspective for the management of international relations.

COLCIENCIAS promotes international mobility of researchers and innovators through cooperative agreements for personnel exchange in joint projects.

The panel also reviewed the mechanisms available in Colombia to finance international projects:

- Regional FP7 seminars in order to generate multipliers;
- Thematic workshops to identify specific research areas (type of research being developed in each country in the region);
- Participation as peer reviewers;
- Learn to use the partner search tool located on the official EU website-CORDIS FP7;
- FP7 Focal Point and contacts with other focal points;
- Identification of other bilateral and multilateral funds.



Figure 10 – Mr. Carrillo from ACCION SOCIAL

4.1.7. PANEL 2: Developing Human Resources for R&D&I

D. Harold Enrique Castro

Professor of the Systems and Computer Engineering Department, Universidad de Los Andes

Da. Sonia Cristina Prieto Zarta

Deputy Director Centre for Electrical, Electronic Engineering and Telecommunications, SENA

D. Gérard Madec

Professor at the Department of Image and Information Processing, Telecom Bretagne, France

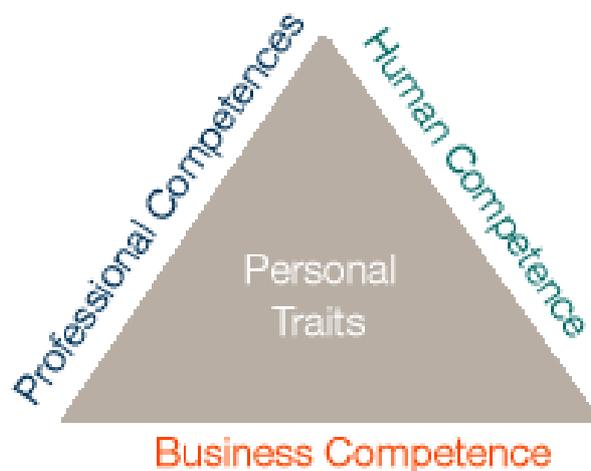
Moderator: Da. Martha Luz Echeverri *Vice-president Human Resources, Region Latin America, ERICSSON*

The objective of this panel was to identify, analyze and discuss human resource qualifications required for undertaking R&D&I international projects.

Representatives from the academy (Universidad de Los Andes), government (SENA) and industry (ERICSSON) participated in this panel. This panel was supported by international participation including Telecom Bretagne.

The discussion focused on the relation between academia and industry with the aim of boosting professional development and achieving international competitiveness.

The following figure shows features characteristic of a successful professional with the skills required to participate in international projects: Professional competences, Human competences and Business competences.



For Echeverri, the Latin American professional has to:

- Develop a vision for taking into account future population trends;
- Attract talent with international experience - the talent that returns to Latin America;
- Strengthen bilingualism;
- Promote investment in R&D&I.

On the other hand, the specific competencies for a researcher are:

- From the point of view of research methods: Monitoring, testing, analysis, technological and environmental awareness;
- Communicator: Languages (English), synthesis, presentation (proposal, results, etc.);
- Negotiator: Peers, superiors, leadership.

Academia also has to play an important role supporting researchers:

- The university has to encourage research areas through:
 - Solid research groups which:
 - Are open to students of different levels;
 - Consist of consolidated researchers (PhDs with results);

- Practice indifferent roles.
- Recognition of the dominant role in society;
 - Metrics / Evaluation;
 - Incentives (resources);
 - Power Results.



Figure 11 – Sonia Cristina Prieto from SENA

According to the FORESTA agenda Panel 3 should have been held during the Session 1 on the first day of the FORESTA Conference. However, as a result of the very significant interest generated by the topics of Panels 1 and 2, those proceedings took a great deal more time than initially planned because of the lengthy discussions which ensued among the participants and the time initially scheduled was exceeded. Consequently, Panel 4 had to be held along with Session 2 on Thursday October 28th, 2010.

4.2. FORESTA Conference – Session 2, Thursday, October 28th, 2010

As a result of the short-notice in the changes to the ANDICOM agenda, the second session of the FORESTA Conference had to be held at a time and place different from those initially planned. These changes were due to a last minute decision of the National Government to launch a new ICT policy (VIVE DIGITAL PLAN aimed at promoting mass use of the internet in order to attain democratic prosperity) on October 28th during ANDICOM 2010. For logistic reasons, in particular the additional security required for the presence of Cabinet Ministers, it was necessary for the ANDICOM organisers to adjust the schedules, including the events related to the European projects. Consequently, FORESTA was forced to move its second session.

As a result of this change in schedule, some content and some participants of the FORESTA session also had to be adjusted. The new venue was at the Lobby Bar La Pinta and the session was held from 1200-1400hrs on October 28th in the form of a working lunch.



Figure 12 – Lobby Bar La Pinta, the place where the second session of the FORESTA Conference was held – October 28th 2010

4.2.1. PANEL 3: Trends in ICT Research Topics – EU-Latin America

D. Marlon Nuñez,

Titular Professor, Universidad de Málaga, Spain

D. Juan Camilo Montes Pineda,

Entrepreneurship Project – Adviser, Ministry of Commerce, Industry and Tourism, Colombia

D. Roberto Minerva,

Manager, Telecom Italia – Future Centre, Italy

The objective of this panel was to identify, analyze and discuss the current benefits, concerns and opportunities for undertaking R&D&I international projects at corporate level.

This panel included international participation from academia (Universidad de Malaga, Spain) and industry (Telecom Italia, Italy) and the participation of the national Colombian government represented by the Ministry of Commerce, Industry and Tourism.

Panellists identified the main trends aligned with the objective areas in the EU's Seventh Framework Programme (technology areas and future challenges) and with the corresponding funding breakdown:

- Technological challenges (50%);
- Socio-economic challenges (40%);
- Exploratory research (10%).

Trends in ICT research topics were presented by a European expert and were related to the Internet of Knowledge:

Challenges:

- Moving from **Bits → Data → Information → Knowledge**;
- Managing Complexity;
- Creating New Open Systems, Business Models and Ecosystems;
- Increasing trade in services.

Two main objectives:

- Anticipating how this transformation will occur;
- How to migrate smoothly and efficiently from the current status of the Internet to the Internet of Knowledge envisaged for the future.

Some common topics:

- Future Internet;
- Internet of Things;
- e-Government, Intelligent Systems, Internet of Things, e-learning.

Skills required by people working on this topic:

- Vision;
- User experience know-how (designers, sociologists/psychologists, Architects, etc.);
- Technologies know-how (WSN, highly-distributed systems, etc.);
- Markets and marketing knowledge;
- Business models and the business environment knowledge.



Figure 13 – Mr. Roberto Minerva presenting the Trends in ICT Research Topics – EU-Latin America R&D&I

4.2.2. **PANEL 4: Encouraging Corporate R&D&I**

<i>D. Roberto Saracco,</i>	<i>Director of the Future Centre, Telecom Italia, Italy</i>
<i>D. Oswaldo Castillo Navetty</i>	<i>National Electronic Telecommunications and Informatics Plan – Coordinator, COLCIENCIAS, Colombia</i>
<i>D. Marlon Nuñez</i>	<i>Titular Professor, Universidad de Málaga, Spain</i>

The objective of this panel was to identify, analyze and discuss the current trends regarding ICT research topics between Europe and Latin American.

During this panel several key concepts were determined for companies to follow, namely:

- Global Innovation, Local Delivery:
 - Colombian companies can't compete against the world;
 - But Colombian companies can take advantage of world markets and knowledge.
- Strategies identified as excellent examples to follow are used by:
 - France Telecom, British Telecom, Hewlett Packard, IBM, Alcatel/Lucent, Huawei, Deutsche Telecom.
- Collaborating with the academic world in research projects:



Figure 14– Mr. Roberto Saracco presenting Encouraging Corporate R&D&I

On the other hand, for the academy the main benefits of participating in international cooperation projects are:

- Access to new technologies:
 - Increasing competitiveness;
 - Sharing risks in R&D&I;
 - International collaboration;

- Access to privileged information at European level and new knowledge;
- Improving the image of the entity – visibility and prestige.
- Financial assistance;
- Discover the real needs of companies (SMEs and multinationals);
- Technology transfer;
- Results with greater impact (more scattered) and easier access to European industry;
- Establishment subsequent agreements with European companies and universities.

Specifically, the benefits identified for research groups are:

- Tangibles:
 - Funding for contract staff;
 - Extra training for research personnel;
 - Extra funding for trainers and teachers.
- Intangibles:
 - Improved capability to organise, manage and coordinate work;
 - Increased work motivation;
 - Encouragement of efforts to improve English language proficiency;
 - Collateral benefits in future publications.

However, some disadvantages were also identified as a result of participating in international projects:

- The original research ideas easily become outdated due to the time lapse between generating an idea and the project becoming active;
- The percentage of actual time spent only for research is less predictable;
- "Bureaucracy" requirements in communications with the European Commission before starting the project and after its completion.

Given the above advantages and disadvantages of participating in international projects, the following are important aspects to take into account:

- Personnel;
- Training;
- Technology;
- Information;
- Decision.

Additionally, it is worth asking these questions before deciding to participate in such international projects:

- Do I have a clear idea of what are the likely advantages and disadvantages for my organisation as a result of participating in international projects ?
 - Is my team / research group mature enough to provide the help that the consortium of an international project needs ?
 - Is my university / company prepared to give me administrative support required by these projects ?
- Do I have the need and desire to cooperate internationally ?

Finally, it is worth noting that as in the first day's session, this session was also attended by representatives from industry, academia and government.

5. CONCLUSIONS

1. Work Package 2 of the FORESTA Description of Work, “Organisation of Conferences,” sets the following criteria as quantifiable measures of success for FORESTA conferences:
 - i. European experts: At least five European experts need to take part in each Latin American event, of which at least two must be representing industry;
 - ii. Type of audience: The conference shall be attended by 50 to 80 delegates from LA scientific communities (except for Mexico and Brazil where 60 to 80 delegates are expected).

The FORESTA Conference in Colombia fulfilled and exceeded the above requirements with the participation of five European experts and 59 delegates. For a list of the European experts and delegates, please see ANNEX 3 and ANNEX 4, respectively.

2. Important discussions were held during the Conference on the following key issues:
 - i. Cooperation initiatives in which Colombia is participating;
 - ii. Human resource knowledge and skills which are necessary to participate in international projects;
 - iii. Benefits and opportunities arising from participation in R&D&I projects at corporate level;
 - iv. Trends in ICT research topics in EU and Latin America.

The conclusions arising out of these discussions are set out below.

3. The conference explained the Colombian political framework in R&D&I to the scientific and industrial research community.
4. The conference audience was informed about the tools of international technical cooperation and about the political priorities in R&D&I.
5. In Colombia, the scientific community is enthusiastic and interested in understanding calls for proposals, the content of proposals, how they should be structured and the procedures for submitting them under the EU’s Seventh Framework Programme (FP7), but much wider dissemination and support is necessary.
6. COLCIENCIAS wants to promote a University-Industry-State-Society model for the development of joint projects, backed by government and with increased industry investment in Science, Technology and Innovation.
7. One of the main concerns in the Colombian scientific community is to ensure that investments in R&D develop into products and services. Therefore, COLCIENCIAS is redesigning its funding policies and creating financing instruments to support patenting.
8. In other countries such as Spain, work is being carried out to guarantee investments in S&T with a focus on innovation. The idea is to turn knowledge into business as a result of the identification of priorities. This is something which could also be implemented to good effect in Colombia.
9. The participation in projects under European Framework Programmes is difficult for entities from Latin American countries because they are not used to participating in proposal and project processes which are rigid and designed for European markets which have already had many years of experience in developing and getting used to adhering to these processes.
10. Competition for funding under EU programmes is intense and only the best projects can be funded.

11. Both the visibility of research and of the possibility for research finance opportunities in Colombia is low. Universities are becoming "islands of research" and do not have enough contact with industry.
12. Colombian researchers have little knowledge about the operation of research networks, groups, or contacts in Europe;
13. In Colombia, capacity and opportunities for research cooperation, through the creation of institutions which provide research services (developing service supply) and institutions executing their own research and contracting out their research to others (developing service demand), are both rather low.
14. Colombia does not have a strategic plan for research which identifies national priorities and specific goals, as well as a timetable and the means which will be implemented to achieve them.
15. In order to participate in international R+D+I projects, Colombian professionals have to improve their cooperation and develop professional, business and human skills.
16. One of the main weaknesses which hinders and even prevents Colombian researchers from participating in international cooperation projects is their lack of bilingualism and, in particular, of English fluency.
17. Currently there is no representation of Colombia in PEOPLE projects under FP7.
18. Events such as the FORESTA Conference are opportunities for interaction and dialogue among different stakeholders and allow the identification and discussion of institutional weaknesses and the actions which are needed to correct them. Therefore, as the conclusions above and recommendations below show, they are very useful as a means of providing thoughtful input for the development of government R&D&I policy.

6. RECOMMENDATIONS

1. In the short term, the Colombian government and COLCIENCIAS in particular, need to make a decisive effort to structure and improve research activities in Colombia. This must be politically carried out in a practical manner and follow clear procedures. The FORESTA mission facilitates this task, but it is necessary for other institutions and actors to get involved in the research arena and to act now in conjunction with official authorities.
2. Colombia needs to develop and implement a strategic plan for research which identifies national priorities and specific goals, as well as a timetable and the means which will be implemented to achieve them.
3. Colombia should set an agenda of priorities and establish contact points in strategic areas through COLCIENCIAS and its Focal Point in order to have more dynamic participation in future FP7 calls for proposals.
4. Colombia could benefit by studying the R&D&I policies and strategies of other countries.
5. Colombia could achieve greater participation in EU Framework Programmes by clearly identifying the country's needs and interests in R&D&I and presenting such findings to the EU in order to have specific calls which address local priorities.
6. In order to broaden the scope of international cooperation, the National Contact Point in COLCIENCIAS must improve both its own and its clients' understanding of the different kind of proposals and submission procedures, including presentation formats the parameters for proposal evaluation and the normal time taken by the EU to respond to proposals.
7. Colombian entities seeking to participate in EU funded projects should ensure they have good consortium partners with the right skills and experience for the project proposed.
8. Colombian entities seeking to participate in EU funded projects should ensure that the all the staff they will put on the project, both in the proposal and afterwards, have the professional, business and humans skills appropriate to the project.
9. Staff writing reports must be trained in report writing. Proposals and reports should be written in the native language and professionally translated into English unless staff can speak and write perfect English.
10. Colombian companies should participate in as many national and international R&D&I events as possible in order to identify and build up a network of potential partners with which to participate in projects and to improve their knowledge on the possibilities of research finance opportunities.
11. Events such as the FORESTA conferences should be made sustainable in order that they can continue after the end of the FORESTA project and additional EU funding should be made available to assist in doing so.
12. The Colombian government should also become closely involved in supporting and sustaining the policy dialogue begun at the FORESTA conference, but in a hands-off way in order to ensure the independence of the dialogue discussions and of the conclusions and recommendation emerging from them.

7. FOLLOW-UP TO THE FORESTA CONFERENCE

7.1. Dissemination of the Results of the FORESTA Conference

The results of the Conference have been disseminated so far mainly via the FORESTA Newsletter, published in December 2010, and the project website. Copies of the relevant website and Newsletter pages are provided below.

Extract from FORESTA Newsletter No.3, December 2010 showing results of the FORESTA Conference – 1st page of extract



<http://www.forestaproject.eu>



Fostering the Research Dimension of Science and Technology Agreements

Issue number 3
December 2010

FORESTA in ANDICOM 2010

Under the ICT International Congress, ANDICOM 2010 was held FORESTA Project Conference, which aim was to promote dialogue concerning ICT policies, to generate a discussion about priorities and key trends of research in Information and Communication Technologies (ICT).

The FORESTA event was held in two sessions (October 27th and 28th) in the America Vespucci conference room at the Las Americas Hotel in Cartagena de Indias, Colombia. It began with a welcome by D. Manuel Martínez Niño, Executive Director of CINTEL; an overview of the project and the Seventh Framework Programme (7FP) by D. Mauro Bianchi, Co-founder and Managing Director of TESEO, and FORESTA coordinator; Dr. Osvaldo Castillo Naveltz, Coordinator of the National Electronic Telecommunications and Informatics Plan, who presented the COL-CIENCIAS policy in S&T&I; Dr. Kevin Flynn with The Importance of updating the 3GPP standards; and Dr. Miguel Gonzalez from ITESM (Tecnológico de Monterrey – México) by video conference, who presented the main examples of successful international cooperation in R&D: 20-year collaboration of the European Union with Latin America.

In addition, in the event took place panels which were developed with the participation of representatives from academia, industry and government:

1. COLOMBIA: ENHANCING INTERNATIONAL COOPERATION, which aims was to identify, analyze and discuss Colombian current initiatives towards the development of the international cooperation and the expectations of Colombia's participation within the international context.
2. DEVELOPING HUMAN RESOURCES FOR R&D&I, which aims was to identify, analyze and discuss the required global qualifications of Human Resources for undertaking R&D&I international projects.



The final topics were TRENDS IN ICT RESEARCH TOPICS - COLOMBIA AND EUROPE, and ENCOURAGING CORPORATE R&D&I.

With the development of the above activities, it was possible to achieve

the objective of the event according with the proposal of the project: to inform the research, scientific and business communities of overall policy framework and initiate a positive process by encouraging researchers and industry to provide input to the policy dialogue. In addition, during the event was presented the main opportunities for Colombia to participate in cooperation projects/programs between researchers of both communities (Europe and Latin America). The attendees, representatives from academia, research centers, industry and other stakeholders involved in the design or implementation of ICT policies, realized the great potential of Colombia to participate in these initiatives. Moreover, continuing with activities related to political

Extract from FORESTA Newsletter No.3, December 2010 showing results of the FORESTA Conference – 2nd page of extract



The research dimension in the Latin America ICT public policy dialogue

A shared understanding of common research and political priorities in ICT is still a challenge faced by Latin America governments. FORESTA aims to contribute to increasing the involvement of Latin American organisations in cooperation projects implementing ICT policies of common interest with EU counterparts that helps the identification of key joint research priorities for the future inclusion of these themes on national agendas. The following paragraphs provide a summary of policies, capabilities and areas of research in ICT in Brazil, Chile, Panama and Mexico. You can read the complete report in Results section of FORESTA's website where you can find complete analysis plus Argentina, Colombia analysis and two countries added Uruguay and Costa Rica.

for innovation and expansion of exports, as a means to achieve better economic efficiency, development and dissemination of technologies with a higher potential for competing internationally. To achieve these goals the priorities lines are focused on innovation and technological development, exportation, attract external investment and strengthening of SMEs.

Projects and programs foster by the Brazilian government that can be related to FP7 ICT themes

There are two main projects that can be pointed out as examples:

Brazilian ICT Policies and its Institutional Structure

Priorities in the ICT research policy

The global government priorities are established by the Productive Development Policy (PDP). Its goals are focused on enhancement of productive structure efficiency, improvement of Brazilian companies' capacity

National Broadband Plan (PNBL): with the goal of spreading, by 2014, the provision of broadband access and to promote growth in the capacity of telecommunications infrastructure.

Brazilian Digital Television System (SBTVD or ISDB-T international): SBTVD is a technical standard for digital television broadcast used and developed in Brazil, and recently adopted by other countries, based on the

The complete Newsletter No.3 is available in ANNEX 8.

Screenshot from the FORESTA website:

Information regarding the results of the Conference of the FORESTA project is available on the FORESTA website.

FORESTA
 FOSTERING THE RESEARCH DIMENSION OF SCIENCE AND TECHNOLOGY AGREEMENTS

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ANDICOM EVENT

ANDICOM celebrated their 25th edition. The theme of this year was Networks, Services and Content: "The business of the Next decade in Latin America". The main theme was covered by world leaders, regional and local expert through seminars, thematic sessions and workshops.

FORESTA Project participates in this event with a Conference, which aim was to promote dialogue concerning ICT policies, to generate a discussion about priorities and key trends of research in Information and Communication Technologies (ICT). If you are interested to know more about the contribution of FORESTA at the event, read our **December Newsletter**.

If you want to know detailed information about the event, visit the official web site click <http://www.andicom.co/noticias%2526comunicados>

Newsletter

- May Newsletter
- September Newsletter
- December Newsletter

Calendar

March 2011

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12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

20 years of EU-LA collaboration

CELEBRATING 20 YEARS OF EU-LA COOPERATION IN RESEARCH & INNOVATION

2001-2011

2011-2013

2013-2015

2015-2017

2017-2020

2020-2023

2023-2025

2025-2027

2027-2030

2030-2033

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7.2. Activities to Sustain the FORESTA Policy Dialogue in Colombia

Due to the recent change in Colombia's government and consequent changes in its, Public Administration, most Colombian government executives within the various institutions identified as key stakeholders in the FORESTA project have changed. However, CINTEL has been maintaining contact with other staff in the targeted institutions in order to keep them informed about the FORESTA project and thus try to ensure continuity of the policy dialogue.

For example, CINTEL held a meeting with the new Leader of the International Group of COLCIENCIAS in order to give all the information regarding FORESTA and ask for her collaboration in the coming activities.



Figure 15 – Mrs. Maria Victoria Whittingham, new Leader of International Group - COLCIENCIAS

CINTEL has sent the FORESTA Newsletter to the new Administration officials and to other project participants, in order to keep them up-to-date on project progress.

Currently, the Ministry of ICT in Colombia is working on the implementation of the new ICT Plan, called “VIVE DIGITAL”, which deals with the increase in Internet penetration in Colombia and the increase in the use of ICT. The FORESTA project aims to work closely with the new initiatives under VIVE DIGITAL.

8. ANNEXES

ANNEX 1. Participants at the FORESTA / PRO-IDEAL PLUS Coordination Meeting

The coordination meeting was held in Bogota, Colombia, on September 15th 2010, at the SOYUZ conference room at the HOTEL COSMOS 100.

Nr.	Name	Entity	Position/Department
1	Ana María Trimmiño	CINTEL	Project Manager
2	Carlos Mauricio Murillo	Ministry of Education	Cooperation and International Affairs Office - Advisor
3	Daniel Lopez	Ministry of ICT	Plan ICT - Advisor
4	Fernando Alarcon	CINTEL	Merchandising and Sales Manager
5	Henry Carrillo	ACCION SOCIAL	International Cooperation Direction – Advisor
6	Ivan Montenegro	COLCIENCIAS	Adviser DDTL
7	Jairo Espinosa	Universidad Nacional de Colombia sede Medellín - ARTICA	PRO IDEAL PLUS Project Local Coordinator
8	Juan Carlos Martínez	CINTEL	Infrastructure - technical support
9	Juan Sebastian Rodriguez	COLCIENCIAS	International office -Advisor
10	Luis Eduardo Peña Reyes	National Commission of Television - CNTV	Technical Deputy Director
11	Manuel Martínez	CINTEL	Executive Director
12	Mariana Sarmiento	Communication Regulation Commission - CRC	Customer Service Coordinator
13	Mario A. Castaño	CINTEL	Technical Director
14	Mario Valencia	Ministry of Commerce, Industry and Tourism	Manager of SW and TI, BPO of PTP
15	Miryan Campo Ayala	Ministry of ICT	Deputy Director of ICT Industry
16	Oscar Giraldo	CINTEL	Project professional (Event Presenter)
17	Oswaldo Castillo Navetty	COLCIENCIAS	National ETI Plan - Coordinator
18	Yenny García Ortiz	CINTEL	Project Professional - FORESTA Local Coordinator

ANNEX 2. Agenda of the FORESTA – PRO IDEAL PLUS Coordination Meeting

The following was the agenda of *the Coordination Meeting between the PRO IDEAL PLUS and FORESTA projects.*



**- Agenda -
COORDINATION MEETING - BREAKFAST
FORESTA and PRO IDEAL PLUS
Projects of the Seventh Framework Programme of the European Commission
Hotel COSMOS 100, SOYUZ Conference room, September 15th 2010**

8:00	Welcome D. MANUEL MARTÍNEZ NIÑO Executive Director CINTEL
8:15	INTRODUCTION TO THE SEVENTH FRAMEWORK PROGRAMME D. MARIO A. CASTAÑO GONZÁLEZ Technical Director CINTEL
8:30	PRO IDEAL PLUS PROJECT: Promotion of an ICT Dialogue Between Europe and Latin America extension towards México, Colombia, Cuba y Costa Rica. D. JAIRO ESPINOSA OVIEDO PRO IDEAL PLUS Local Coordinator, Colombia. Professor of the Universidad Nacional de Colombia, Medellín.
9:00	FORESTA PROJECT: Fostering Research Dimension of Science and Technology Agreements DA. YENNY GARCÍA ORTIZ FORESTA Local Coordinator, Colombia. Project professional, CINTEL.
9:30	UPCOMING EVENTS
9:45	Question and answer session
10:15	Event closure



ANNEX 3. European Experts Appearing at the FORESTA Conference

The following list shows the European speakers of the Conference.

Name	Organization name	Company / entity position	Country	Type of participation	Date of participation
Kevin Flynn	3GPP	Director of Marketing and Communications	France	Speaker	October 27 th
Gerard Madec	Telecom Bretagne	Professor of the Department of Image and Information Processing	France	Panellist	October 27 th
Roberto Minerva	Telecom Italia – Future Centre	Manager	Italy	Panellist	October 28 th
Marlon Nuñez	Universidad de Malaga	Titular Professor	Spain	Panellist	October 28 th
Roberto Saracco	Telecom Italia	Director of the Future Centre	Italy	Panellist	October 28 th

ANNEX 4. Delegates at the FORESTA Conference

The following list shows the attendees of the FORESTA Conference. It includes representatives from industry, the government and academia.

Nr.	Name	Organization name	Company / entity position
1	Alberto Amaya	Universidad Nacional de Colombia	Film School Director
2	Alberto Montoya	Smart Kapital	Partner
3	Alexander Domenech	U. San Buenaventura	Advisor CIB.
4	Alfonso Perez Gama	Fundacion Educativa Superior San José	Dean of Engineering
5	Ana Carolina Ramirez	SENA-CEET	Apprentice
6	Ana María Trimmíño	CINTEL	Project Manager
7	Andrés Fabián Pirafan	MEDIOS Y SOLUCIONES	Electronic Engineer
8	Angélica María Castro	Casa Editorial El Tiempo	Producer of information portals
9	Beatry Bechara	Observatorio del Caribe	Director
10	Dennis García	CINTEL	Project Professional
11	Diana Arroyave	INTERNEXA Perú	Manager
12	Edna Consuelo Cerón	FUNDACIÓN PAÍS DEL CONOCIMIENTO	Administrative Director
13	Edwin Montoya	Universidad EAFIT	Director of Systems Engineering
14	Fernando Roca	INSTRUMENTACIÓN	Manager
15	Francisco Javier Roldán	FUNDACIÓN PAÍS DEL CONOCIMIENTO	President
16	Fredds Diaz	CIDEL	Director of Technological Development
17	Gerard Madec	Telecom Bretagne	Professor of the Department of Image and Information Processing
18	Gerardo M. Polania	SENA-CEET	Instructor
19	Harold Castro	Universidad de Los Andes	Professor
20	Hugo Herley Malaver	Universidad de San Buenaventura	Director of Specialization in Telecommunications Business
21	Jairo Espinosa	ARTICA - Universidad Nacional de Colombia sede Medellín	PRO IDEAL PLUS project - Local Coordinator
22	Jeison Cubillos	Universidad Distrital	Student
23	Jhon Quiza	CIDEL	Project Manager
24	Jhonn Sayo	SAYO SAS	CEO
25	Jordi Utiel	VIDEO STREAM NETW	CEO
26	Jose Didier Torres	DAS	Engineer I+D
27	José Jaime Gómez	MULTIMEDIA SERVICE	General Manager
28	José Luis Barrientos	MER TELECOM	Managing Director

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Nr.	Name	Organization name	Company / entity position
29	José Said Becerra	Universidad Manuela Beltrán	Research Professor
30	José Sua Diaz	Universidad Distrital	Student
31	Juan Camilo Montes	Ministry of Commerce, Industry and Tourism	Director
32	Juan F. Marquez	UNE	Innovation Management
33	Juan Sebastian Rodríguez	COLCIENCIAS	International Group
34	Julian Gomez	TACHYON	Consulting Director
35	Julian Seseña	Rose Vision	President
36	Kevin Flynn	3GPP	Director of Marketing and Communications
37	Luis Carlos Donado	HIGEA S.A.	Manager
38	Luis Pedraza	Universidad Distrital	Professor
39	María Beatriz Castillo	MEDIOS Y SOLUCIONES	Industrial Designer
40	María Eugenia Gutiérrez	Inv. Gutiérrez & García	Manager
41	Marlon Nuñez	Universidad de Malaga	Titular Professor
42	Martha Luz Echeverri	ERICSSON	VP Human Resources
43	Mauricio Montenegro	CINTEL	Project Professional
44	Mauro Bianchi	TESEO	Managing Director
45	Monica Espinosa	SENA	Area Leader
46	Natalia Vargas	ERICSSON	Director of Communications
47	Oswaldo Bejarano	TACHYON	Senior Consultant
48	Oswaldo Castillo Navetty	COLCIENCIAS	National ETI Plan - Coordinator
49	Pedro Nel Perez	National Commission of Television - CNTV	Contractor
50	Ricardo Alirio G.	Universidad Distrital	Professor
51	Roberto Leguizamo	SENA	Student
52	Roberto Minerva	Telecom Italia – Future Centre	Manager
53	Roberto Saracco	Telecom Italia	Director of the Future Centre
54	Roland Sepulveda	MULTIMEDIA SERVICE	Virtualization Director
55	Rosangela Lopez	DAS	Engineer I+D
56	Sonia Prieto	SENA	Sub Director Centre of EET
57	William Martínez	Universidad Distrital	Telecommunications Engineer
58	Yenny García Ortiz	CINTEL	Project Professional - Local Coordinator of FORESTA
59	Yenny Paola Aldana Blanco	SENA-CEET	Apprentice

ANNEX 5. Agenda of the FORESTA Conference

Due to document size limitations, these documents may be found in a *.pdf file submitted separately and named:

FORESTA-Project-No-248676_D2.3-Report_ANNEX-5_Conference-Agenda.pdf

ANNEX 6. Examples of Letters of Invitation to National and International Speakers

Due to document size limitations, these documents may be found in a *.pdf file submitted separately and named:

FORESTA-Project-No-248676_D2.3-Report_ANNEX-6_Invitation-Letters.pdf

ANNEX 7. Copies of the “Panel Guides” used by the Panels at the FORESTA Conference

Due to document size limitations, these documents may be found in a *.pdf file submitted separately and named:

FORESTA-Project-No-248676_D2.3-Report_ANNEX-7_Panels-1-4.pdf

ANNEX 8. FORESTA Newsletter No. 3, December 2010

Due to document size limitations, these documents may be found in a *.pdf file submitted separately and named:

FORESTA-Project-No-248676_D2.3-Report_ANNEX-8_Newsletter3.pdf

ANNEX 9. Copies of Presentations at the FORESTA Conference in Colombia

Due to document size limitations, the presentations of the speakers may be found in *.pdf files submitted separately and named as follows:

FORESTA-Project-No-248676_D2.3-Report_ANNEX-9_Bianchi.pdf
FORESTA-Project-No-248676_D2.3-Report_ANNEX-9_Carrillo.pdf
FORESTA-Project-No-248676_D2.3-Report_ANNEX-9_Castillo.pdf
FORESTA-Project-No-248676_D2.3-Report_ANNEX-9_Castro.pdf
FORESTA-Project-No-248676_D2.3-Report_ANNEX-9_Flynn.pdf
FORESTA-Project-No-248676_D2.3-Report_ANNEX-9_Gonzalez.pdf
FORESTA-Project-No-248676_D2.3-Report_ANNEX-9_Luz-Echeverri.pdf
FORESTA-Project-No-248676_D2.3-Report_ANNEX-9_Madec.pdf
FORESTA-Project-No-248676_D2.3-Report_ANNEX-9_Minerva.pdf
FORESTA-Project-No-248676_D2.3-Report_ANNEX-9_Nuñez.pdf
FORESTA-Project-No-248676_D2.3-Report_ANNEX-9_Nuñez-Panel.pdf
FORESTA-Project-No-248676_D2.3-Report_ANNEX-9_Prieto.pdf
FORESTA-Project-No-248676_D2.3-Report_ANNEX-9_Rodriguez.pdf
FORESTA-Project-No-248676_D2.3-Report_ANNEX-9_Saracco.pdf