



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

**Technology Platforms in Latin America for the positioning of LA
industry in ICT research collaboration with the EU**

Mauro Bianchi, FIRST project, TESEO, Belgium

Luz Ledesma, FIRST project, ALETI

Montevideo, 19th September 2011

ETPs:

- 1) What are we talking about**
- 2) Functions**
- 3) The way they operate**

- ❖ European Technology Platforms (ETPs) are industry-led, public/private partnerships encouraged by EC to drive innovation and unite stakeholder communities in reaching strategic research objectives of key European industry sectors.
- ❖ Introduced in FP6, they answer to the need expressed in 2003 by the European Council of strengthening the European research and innovation area...

‘bringing together technological know-how, industry, regulators and financial institutions to develop a strategic agenda for leading technologies’.

The main mission of ETPs is to express and structure the need for research in specific area of their competence.

Specifically they aim at:

- ▶ defining medium to long-term research and technological objectives and developing roadmaps to achieve them.
- ▶ contributing to increase synergies between different research actors.

The typical outcome of ETPs is the so-called

Strategic Research Agenda (SRA):

- ❖ “position papers” which set out R&D goals, time frames and action plans for technological advances.
- ❖ SRA are necessary to mobilise a critical mass of national and European public and private resources.
- ❖ SRA are adopted by the European Commission to develop and shape the FP work programmes.

The typical lifecycle of a European Technology Platform:

- ▶ **Stage 1: Stakeholders getting together** in order to establish their “vision” for the future development of the field concerned and to set up the technology platform;
- ▶ **Stage 2: Stakeholders define a Strategic Research Agenda** setting out their common views on the necessary medium to long term research, development and demonstration needs for this technology;
- ▶ **Stage 3: Implementation of the Strategic Research Agenda** - for which, in many instances, it is anticipated that significant public and private investments will need to be mobilised.



- ❖ In general, for ETPs is not foreseen a standard internal structure.
- ❖ Each ETP can organize itself in a different way, introducing its own rules for membership and internal mechanisms of cooperation.
- ❖ The only common principle is that ETP membership is open: any European organization with proven interest and skills in their own research fields can become a member.

- ❖ ETP are built in sectors of strategic importance of EU and where a critical mass of stakeholders (industry, business and research) is present.
- ❖ The ETPs in the ICT sector comprise the following:
 - ❖ ARTEMIS Embedded Intelligence and Systems
 - ❖ ENIAC Nanoelectronics
 - ❖ EPOSS Smart System Integration
 - ❖ ISI Integral Satcom Initiative
 - ❖ NET!WORKS Mobile and Wireless Technologies
 - ❖ NEM Networked Electronic Media
 - ❖ NESSI Software and Services
 - ❖ PHOTONICS21 Photonics
 - ❖ EUROP Robotics

European Technology Platforms play a strategic role in the International cooperation in a number of ways:

- ❖ Disseminating and helping understand European research priorities out of Europe
- ❖ Acting as possible direct interlocutors for non-EU researchers, able to voice international needs and priorities to the EU
- ❖ Gathering potential partners in EU projects
- ❖ Fostering innovation, as they join industrial and academic interests together

First

ETPs: Actors in the international cooperation

- ❖ ETPs support international debates, where goals and strategic researches agendas can be discussed and implemented bringing European and international researchers together
- ❖ To help dialogue, ETPs need to have similar interlocutor in non-EU regions

- ❖ Latin American Technology Platforms (LATPs) are the extensions and adaptations to Latin America, of the already successful story of European Technology Platforms.
- ❖ Implemented in five countries of Latin America through the FIRST Project, funded by the Seventh Framework Programme of the EC.
- ❖ Communities that gather representatives from the industry (Large companies and SMEs) and the Academia in order to foster and promote a consistent approach to R&D&I activities in Future Internet in Latin American countries

First

The LATP's

future internet



One LATPs per country
focused in Future Internet,
ICT Components and
Systems fields.

► Montevideo, 19th September 2011

Each LATP has developed:

- ▶ **Vision document**
- ▶ **Governance model**
- ▶ **Strategic Research Agenda of Future Internet**

LATPs has the aim of positioning:

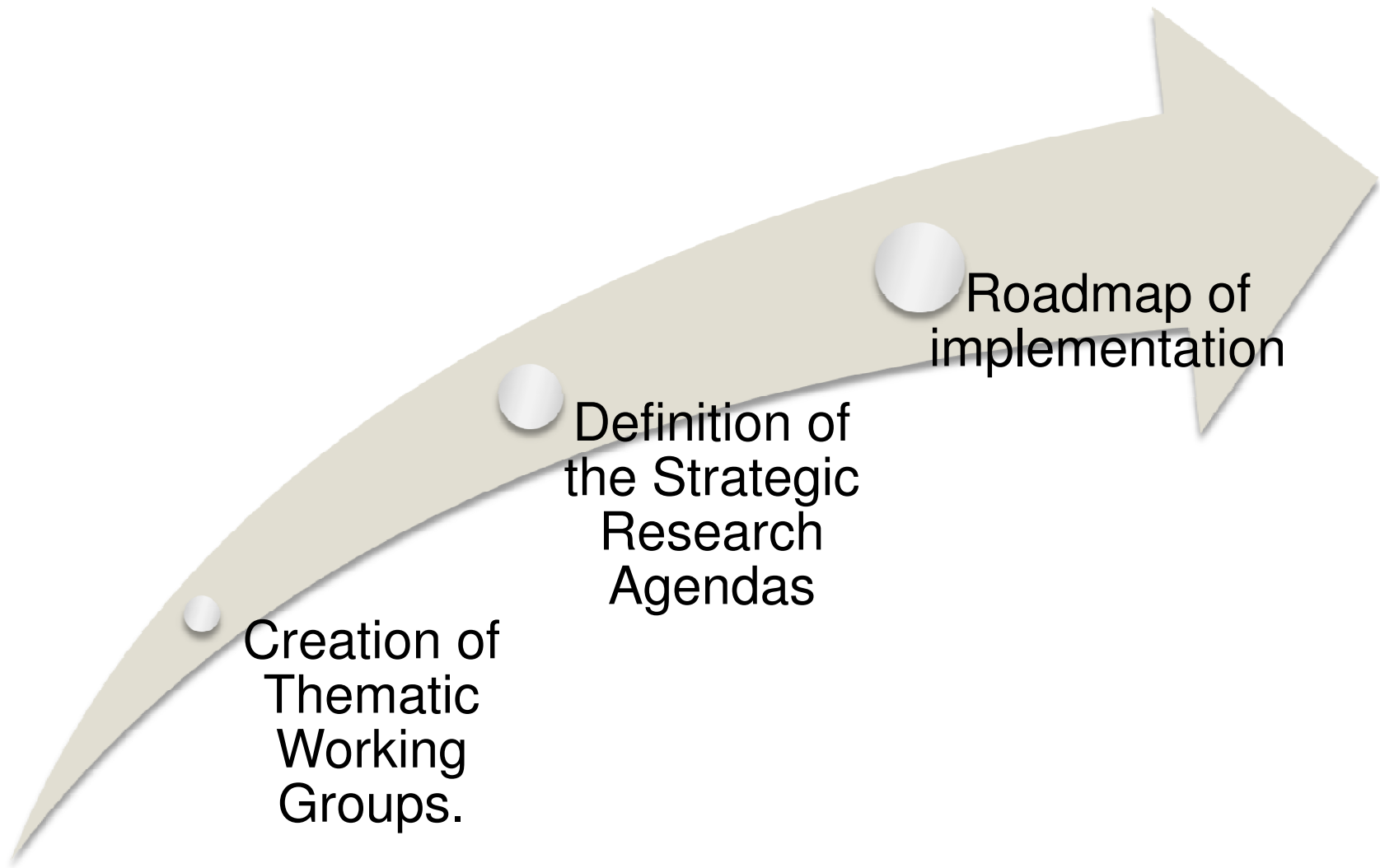
**Latin America as a Strategic Partner for
R&D activities**

- ▶ **Awareness-raising:** The objectives and activities of the Community will be disseminated to all stakeholders including policy makers, regulators, the business sector and consumers, as the community focuses also on the identification of future market needs and future developments.
- ▶ **Industry-driven:** LATPs are driven by the industry and market needs according to each country's current and foreseen situation.
- ▶ **Collaboration:** LATPs are aimed at aligning R&D&I efforts of different stakeholders toward the promotion of collaborative R&D&I topics and projects that impact on the development of its members and society.
- ▶ **Openness:** participation in the LATPs are open to all entities that are willing to contribute to the activities of this community.
- ▶ **Internationalization:** LATPs aimed at establishing stronger bounds for cooperation with equivalent European and international communities.

- ▶ **LATPs helps to** position the countries and Latin America in general as a Strategic Partner for R&D.
- ▶ Give the possibility to Latin America to establish a position paper about what Internet do we want.
- ▶ Participation in the ICT R&D prospective of each country.
- ▶ Networking with International Counterparts (ETPs).
- ▶ Channel to find partners for R&D activities
- ▶ Unique space that gathers: Industry, Academia and Government.

First




















Phases of LATPs



► Montevideo, 19th September 2011

First

Working Groups per LATP

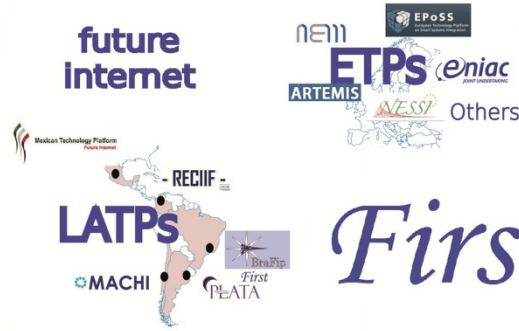
	PLATA	BRAFIP	MACHI	RECIIF	MTP
Networked and Electronic Media (NEM)					
Software and Services (NESSI)					
Satellite Communications (ISI)					
Mobile and Wireless Networks (Net!works)		Net!Works	Net!Works	Net!Works	Net!Works
Intelligent Integrated Systems (EPoSS)					
Embedded Systems (ARTEMIS)					
Nanoelectronics (ENIAC)					

Montevideo, 19th

First

Actions to Positioning LATPs

Visibility of LATPs leaders to the European stakeholders



First

In Progress

Publication of LATPs news in european newsletters.

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

FIRST » NEWS

PLATA Leader received European Excellence 2011 Award

The ceremony was held in Hannover

It is a great pleasure to announce the award of the European Excellence 2011 Award in the Gold category to PLATA.



Interview with Daniel Lupi: President of the Argentinean Nanotechnology Foundation



Montevideo, 19th September 2011



Editorial

Welcome to the NESSI 2011 newsletter. We are excited to bring you the latest developments in our newsletter, with the SRA now up and running. We will use it to support online collaboration in the preparation of the Members Day, a topic on which we will be sending an email to registered members.

Introduced in our previous newsletter, the new NESSI Web site is now up and running. We will use it to support online collaboration in the preparation of the Members Day, a topic on which we will be sending an email to registered members.

At the latest developments in our newsletter, with the SRA now up and running. We will use it to support online collaboration in the preparation of the Members Day, a topic on which we will be sending an email to registered members.

At the latest developments in our newsletter, with the SRA now up and running. We will use it to support online collaboration in the preparation of the Members Day, a topic on which we will be sending an email to registered members.

At the latest developments in our newsletter, with the SRA now up and running. We will use it to support online collaboration in the preparation of the Members Day, a topic on which we will be sending an email to registered members.

Latin America collaborations

"Latin American Technology Platforms (LATPs) are born"

Latin America through Technology Platforms

The FIRST project is a FP7 Support Action intended to foster international cooperation in the area of future internet between Technology Platforms (ETPs) to Latin American key strategic research centres in each one of these three major areas is structured in several European technology platforms led by the most relevant industry stakeholders in each sector. The full list of European Technology Platforms associated combined with other factors such as the existence of national policies on these research areas, or the existence of a critical mass of working groups, continue for each LATP how many thematic correspond to the domains covered in the EU for the ETPs. A total of 23 working groups were proposed for the 5 LATPs. A final analysis also proposed a common structure for the LATPs (including the steering council, different members categories and working groups) identifying the initial membership and composition.

This analysis work has formed the basis for starting the activities on LATPs governance and launch of operations. During the official launch, the approval of the composition of the steering council was performed together with the approval of the Strategic vision and Governance structure. The first LATP was RECIIF (I) that was born on 28th October 2010 in internet del futuro RECIIF at ANDESOP 2010 (Colombia). It was followed by the Mexican Technology Platform (MTP) on 9th November 2010 in Puebla City, Mexico. Then the Chilean LATP named ASES was created on 25th December 2010 in Santiago de Chile. Finally the PLATA (Plataforma Tecnológica Argentina) was officially launched on 6th December 2010 in Buenos Aires, Argentina. The Brazilian Future Internet Platform (BrazilFIP) was launched on 13th April 2011 in São Paulo. The technology pioneers already created in Latin America gather more

Networks, Services and Applications	Future Internet	ICT Components	Systems
Networks	Phonetic 21	Phonetic	Phonetic
Mobile and Wireless Communications	EMAR	EMAR	EMAR
			Share System Integrator ARTEMIS

First

Actions to Positioning LATPs

In Progress

Presentación en eventos europeos de diferentes temáticas TIC.

Posibilidad de participación en eventos europeos.

4th European Conference
ServiceWave 2011
26th-28th October, Poznan, Poland

<http://servicewave.eu/2011/>
<http://www.future-internet.eu/>



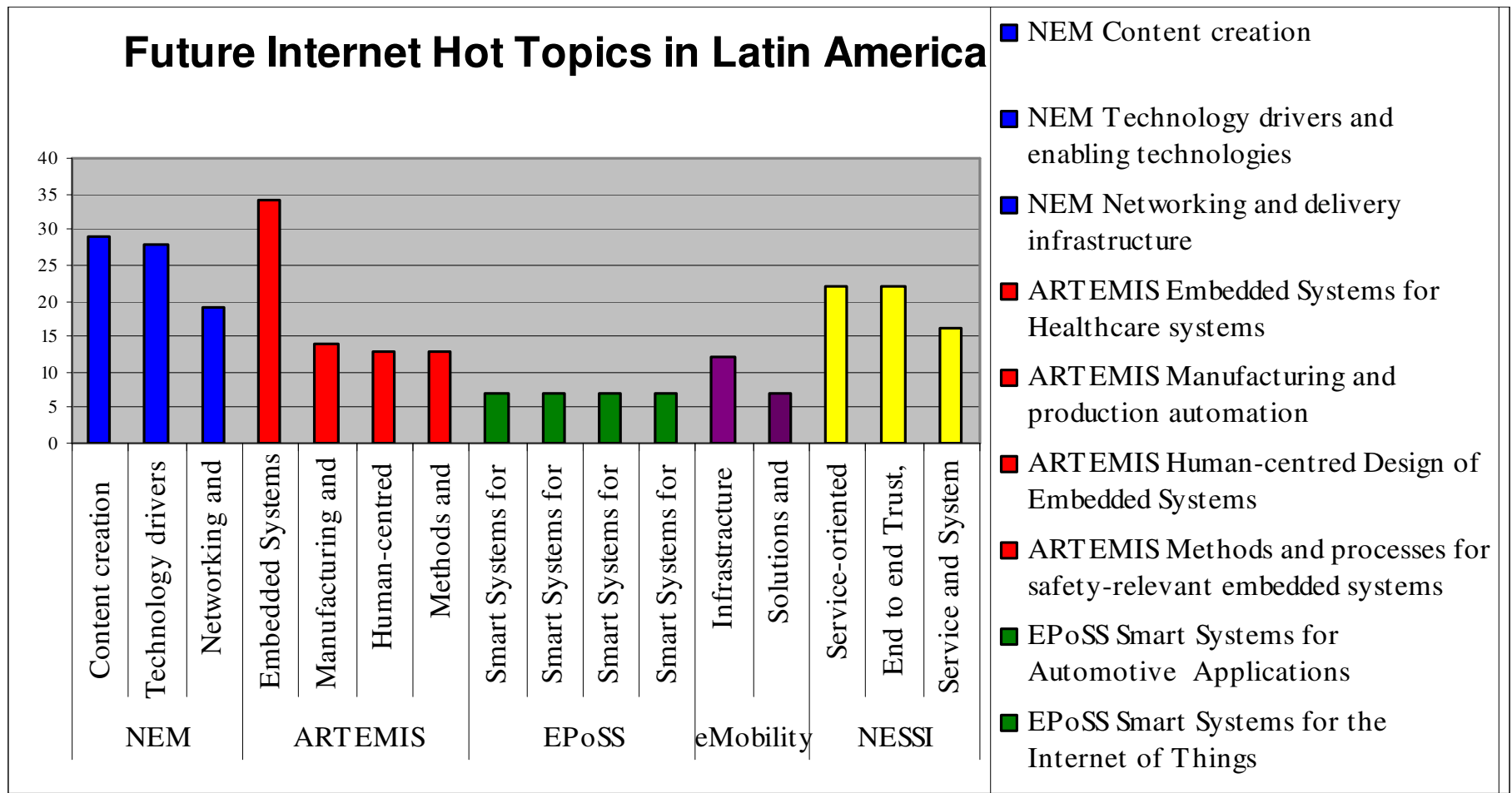
FUTURE
INTERNET
ASSEMBLY



BROKERAGE EVENT 2011

► Montevideo, 19th September 2011

Identify the areas with higher potential for international cooperation with the EU:



First

Roadmap of Implementation

Identify the research topics and project ideas to look for R&D partners:

		Entity	Proposal
NEM	Topic 1: Tecnologías 3D interactivas		
	Topic 2: Búsqueda semántica		
	Topic 3: Nuevos contenidos		
	Topic N: ...		
NESSI			



An unique
opportunity!

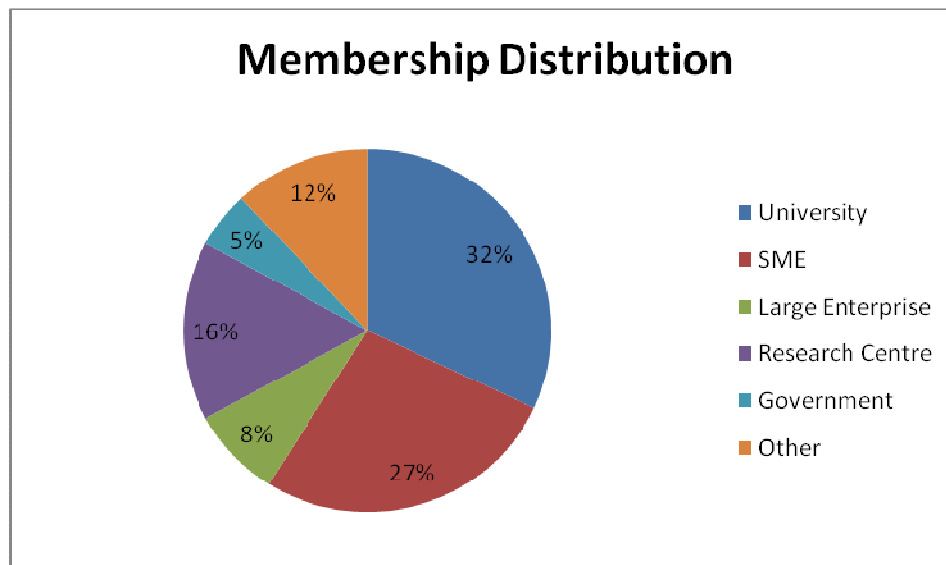
First

Argentina: PLATA

- ❖ Secretariat: ALETI
- ❖ 93 members
- ❖ Support of Ministry of Science and Technology

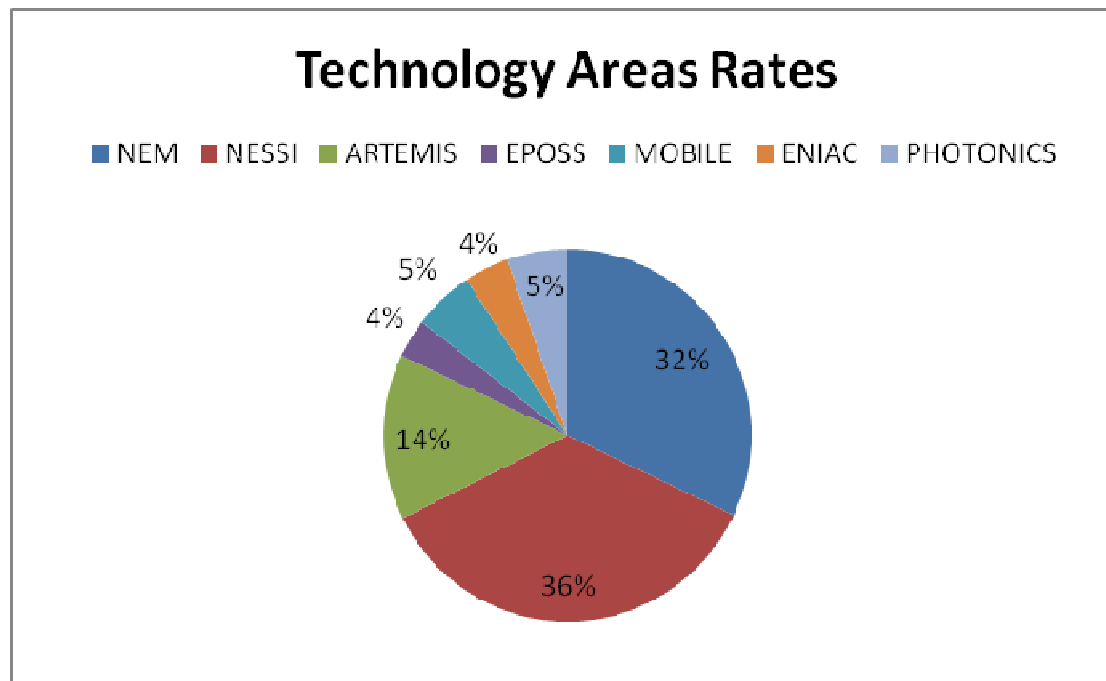


PLATAFORMA TECNOLÓGICA ARGENTINA DE
INTERNET DEL FUTURO



► Montevideo, 19th September 2011

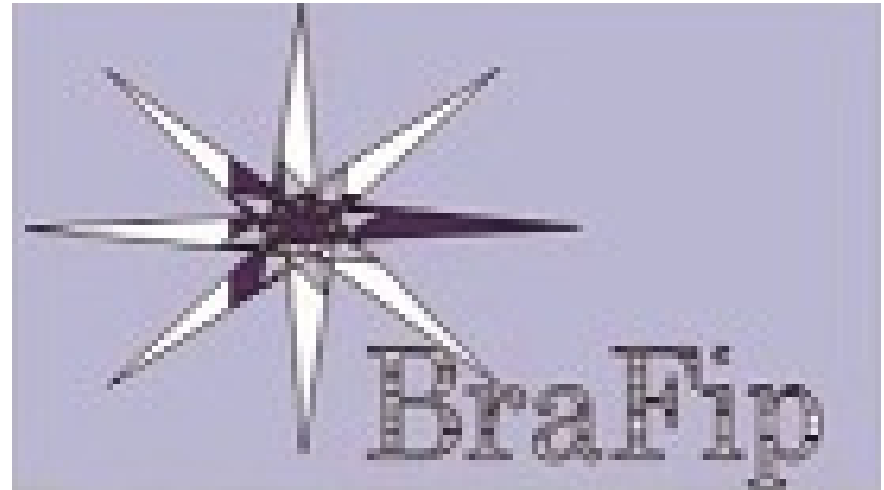
SRA:



NESSI Hot TOPICS

- ❖ Service and System Engineering
- ❖ Adaptive interactions
- ❖ Business process modelling
- ❖ Services-oriented utility infrastructure

- ❖ Secretariat: USP
- ❖ Chairman: Roberto Mayer (ASSESPRO)



Vision

- ❖ Enhancement of productive structure efficiency.
- ❖ Improvement of Brazilian companies' capacity 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.

► *Montevideo, 19th September 2011*

SRA Satellite Working Group: Research Topics:

- ❖ Spectrum availability with efficient spectrum use
- ❖ Higher frequency bands
- ❖ Flexible satellite missions
- ❖ New satellite technologies with lower costs and faster deployment
- ❖ Interworking with terrestrial networks:
- ❖ Urban and in-building coverage

First

Chile: MACHI



PLATAFORMA TECNOLÓGICA CHILENA DE
INTERNET DEL FUTURO

First

❖ Secretariat: ALETI

❖ Support of CONICYT and
CORFO

▶ *Montevideo, 19th September 2011*

ARTEMIS HOT TOPICS:

- ❖ Methods and processes for safety-relevant embedded systems.
- ❖ Manufacturing and production automation
 - ❖ Embedded Systems for Healthcare systems
- ❖ ES for the Security and Critical Infrastructures Protection

SRA

Type of organizations

