

# *First*

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

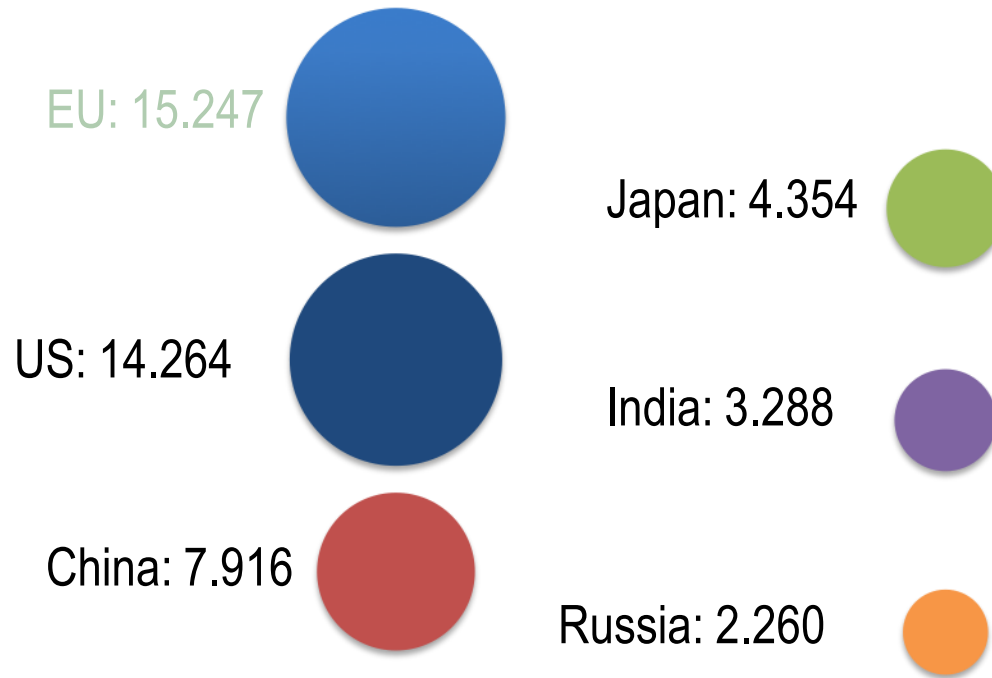
*Monterrey, 10th June 2010*

# *First*

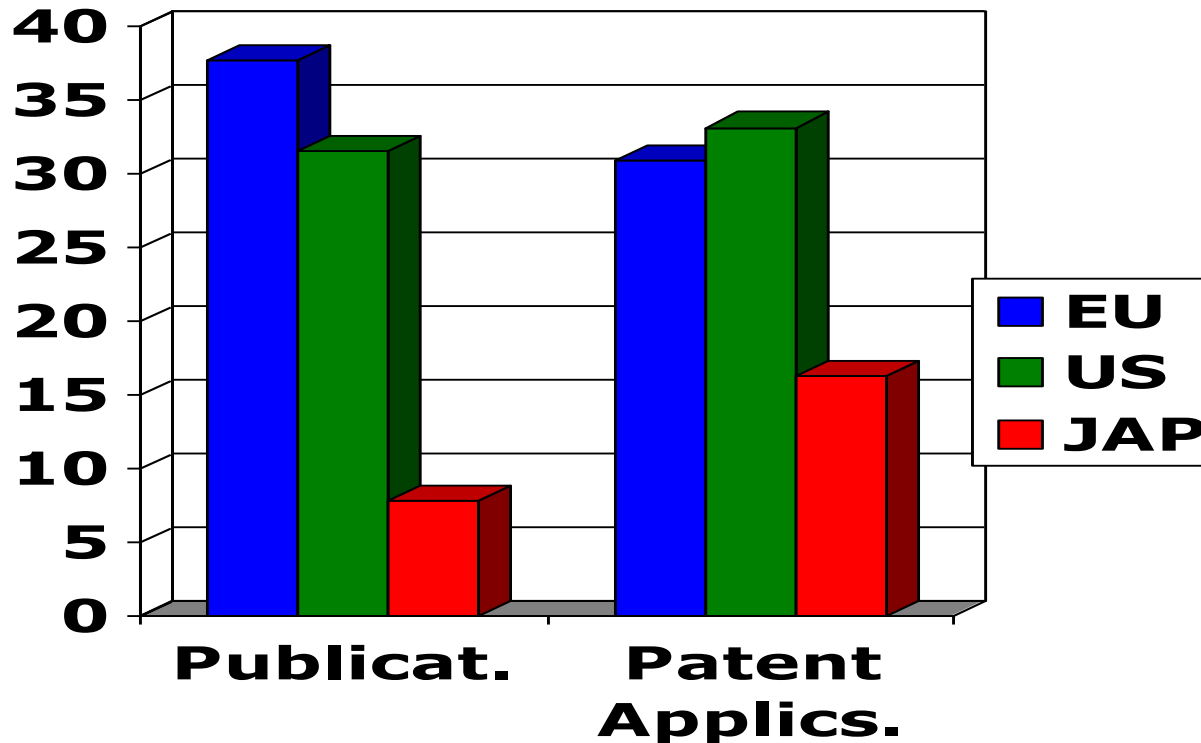
# Why Europe?



► Monterrey, 10th June 2010



GDP in billion Euros (2008)



Source: A more research-intensive and integrated European Research Area. Science, Technology and Competitiveness Key Figures Report 2008/2009“ European Commission 2008. (% of World, 2006)

- ▶ EU: Biggest investor in LA; No. 2 trading partner
- ▶ R&D: **FP7 open** to Latin American organisations, possibility to set up joint calls
- ▶ Much ground for S&T cooperation for mutual benefit
- ▶ Jointly respond to major **technological challenges** serving to societal goals
- ▶ Jointly develop solutions to major **societal challenges** (Energy consumption, Ageing and assisting living, education, security, climate change, etc.)

## Latin American organisations in FP projects (ICT & eInfrastructures)

| LA Participants      | FP6 Total | FP7 Partial |
|----------------------|-----------|-------------|
| BRAZIL               | 40        | 28          |
| CHILE                | 9         | 17          |
| ARGENTINA            | 7         | 13          |
| COLOMBIA             | 1         | 11          |
| URUGUAY              | 2         | 9           |
| MEXICO               | 6         | 6           |
| PERU                 | 3         | 6           |
| COSTA RICA           | 1         | 5           |
| VENEZUELA            | 3         | 3           |
| GUATEMALA            | 2         | 1           |
| ECUADOR              | 1         | 1           |
| HONDURAS             | 0         | 1           |
| PARAGUAY             | 1         | 0           |
| <b>LATIN AMERICA</b> | <b>80</b> | <b>101</b>  |

- Strong increase in cooperation (from 29 in FP5 to 101 in FP7 so far)
- Participation of 12 LA Countries
- S&T Agreements with Argentina, Brazil, Chile, Mexico

- ▶ The ultimate goal of this project is to **set up 5 Technology Platforms** in Latin America (Argentina, Brazil, Chile, Colombia and México)
- ▶ Establish **fluent links and active cooperation** between these national Technology Platforms and the existing European Technology Platforms (ETPs).

# First



## European Technology Platforms: Concept

**Stakeholders getting together to define a Strategic Research Agenda on a number of strategically important issues with high societal relevance where achieving Europe's future growth, competitiveness and sustainable objectives is dependent upon major research and technological advances in the medium to long term.**

# First

# Technology Platforms in Europe

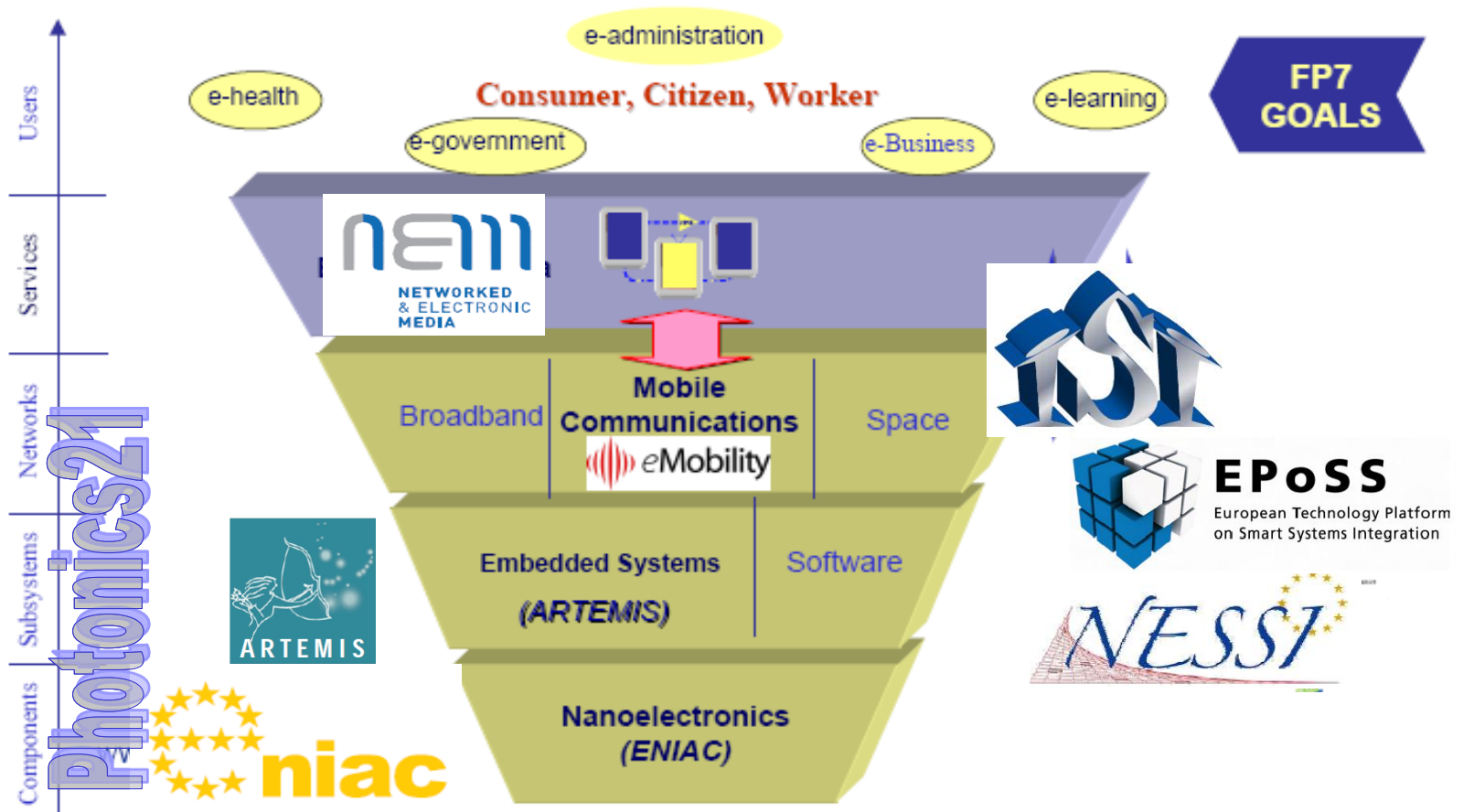
|                 |              |                                    |
|-----------------|--------------|------------------------------------|
| Future Internet | eMobility    | Mobile and Wireless Communications |
|                 | ISI          | Satellite Communications           |
|                 | NEM          | Networked Electronic Media         |
|                 | NESSI        | Software and systems               |
| ICT Components  | Photonics 21 | Photonics                          |
|                 | ENIAC        | Nanoelectronics                    |
| Systems         | EPoSS        | Smart Systems Integration          |
|                 | ARTEMIS      | Embedded Intelligence and Systems  |



Now, let's map them...

# First

# Technology Platforms in Europe



# First

## The proposal for México...

Mexican Future Internet Technology Platform  
*1 ó varios presidentes;  
Vice-presidentes (al menos uno por grupo activo)*

**Estructura  
Gobernanza  
Visión**

| Coord                      | Coord                       | Coord                     | Coord               | Coord               | Coord    | Coord           | Coord                 |
|----------------------------|-----------------------------|---------------------------|---------------------|---------------------|----------|-----------------|-----------------------|
| Comunicaciones inalámbrica | Comunicaciones por satélite | Tecnologías audiovisuales | Software y sistemas | Sistemas empotrados | Fotónica | Nanoelectrónica | Sistemas inteligentes |

**Miembros**

**Miembros**

**Miembros**

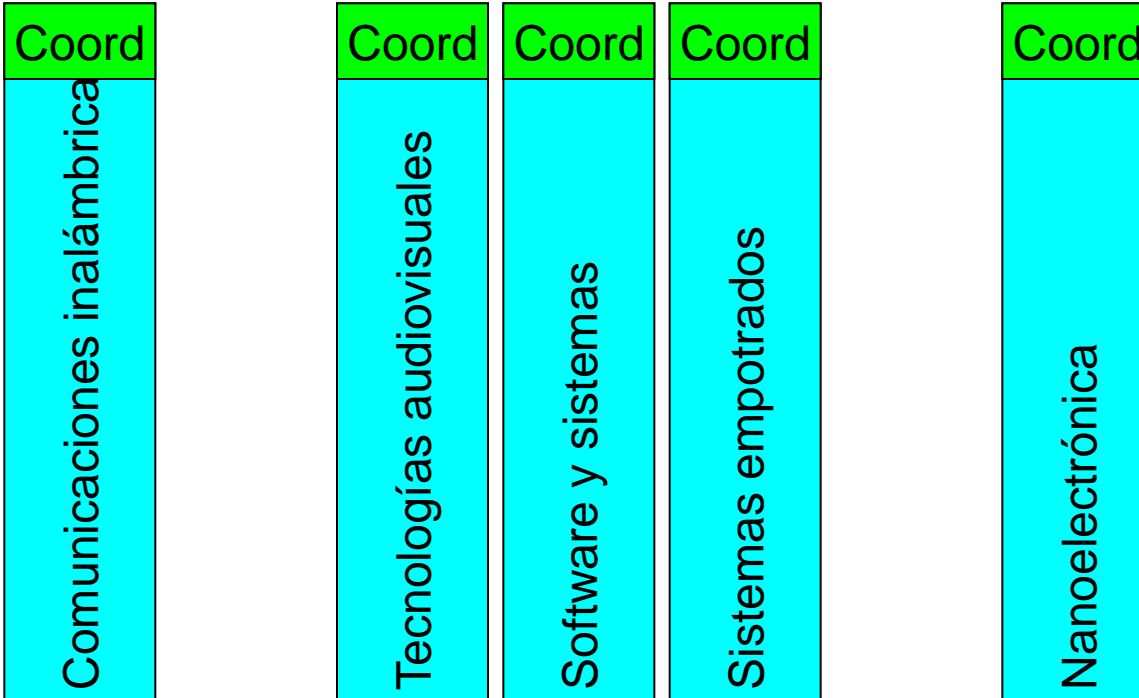
**Miembros**

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**Miembros**

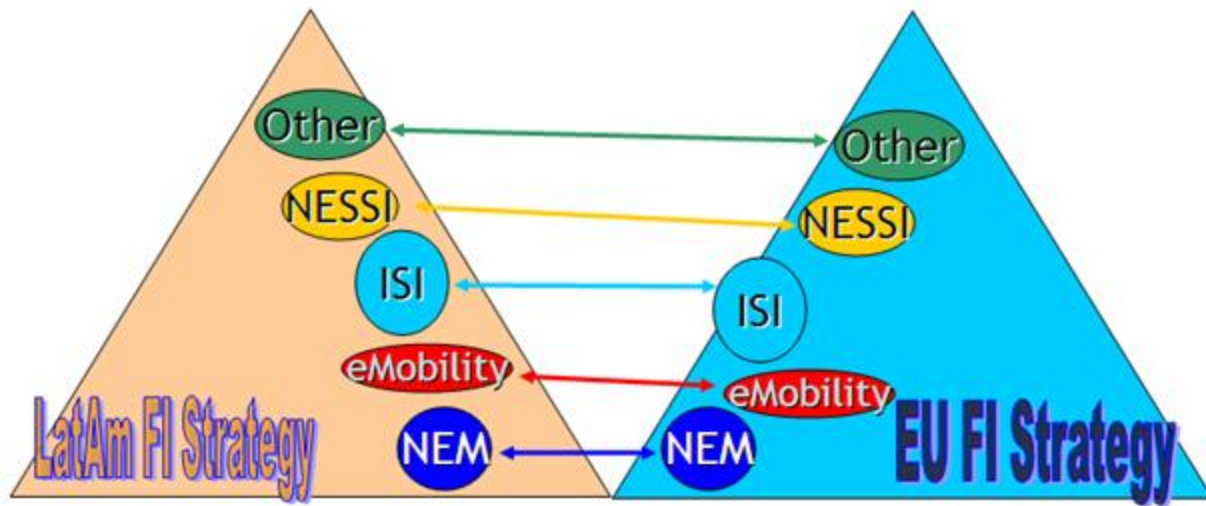
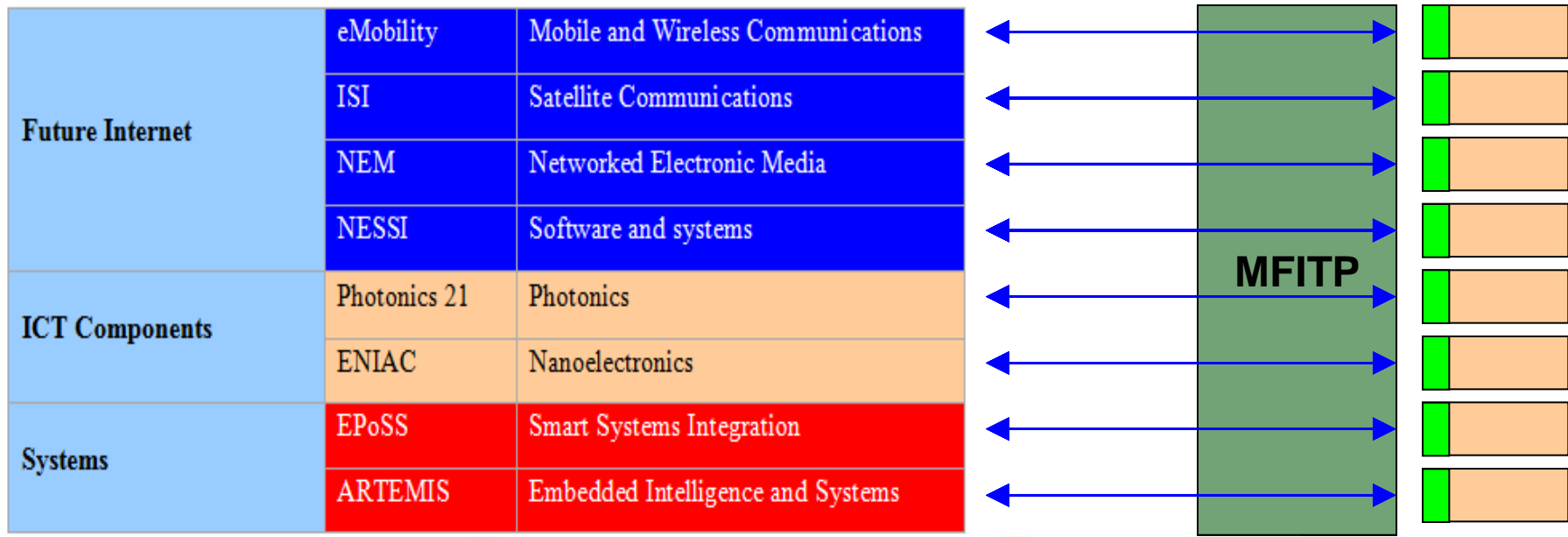
**Miembros**

**Miembros**

**Miembros**

# First

## ETPs structure in the ICT field and coordination with LATPs



Plataforma Mexicana de Internet del Futuro

IDEAS e iniciativas

ETPS In Europe

Fondos I+D (FP7)

eMobility

ISI

NEM

NESSI

Photonics 21

ENIAC

EPoSS

ARTEMIS

eMobility

ISI

NEM

NESSI

Photonics 21

ENIAC

EPoSS

ARTEMIS

Calls 2011

Calls 2012

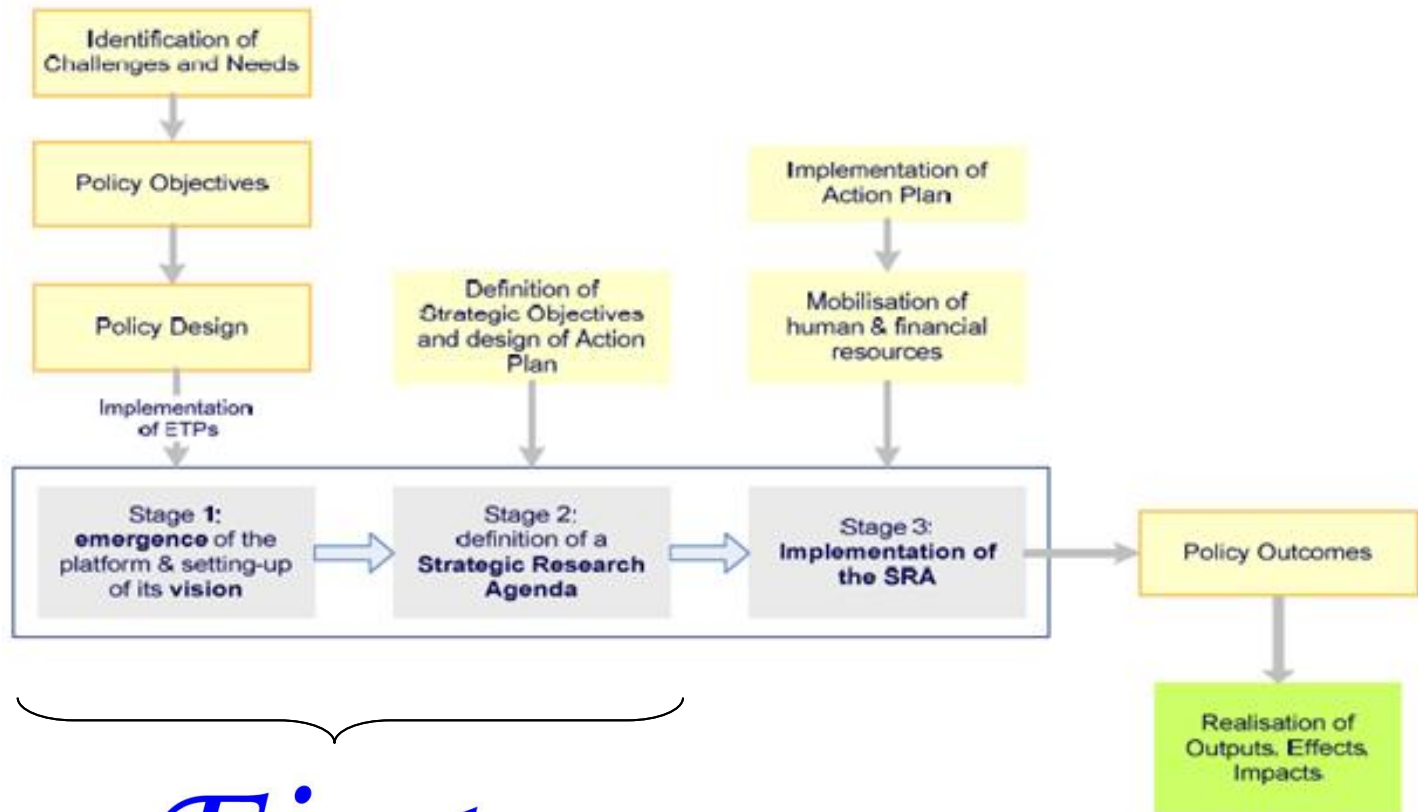
Calls 2013

PROYECTOS I+D



# First

## Technology Platforms – FIRST lifecycle



*First* + Roadmap for future implementation of EU-LatAm cooperation

¿En que fase nos encontramos, que es lo que sigue?

**Identificación de los Stakeholder**



**Identificación de las areas potenciales de cooperación en México**



**Creación de la Plataforma Tecnologica Mexicana (PTM) en Future Internet con sus Grupos Tematicos de Trabajo como contraparte de las ETPs.**



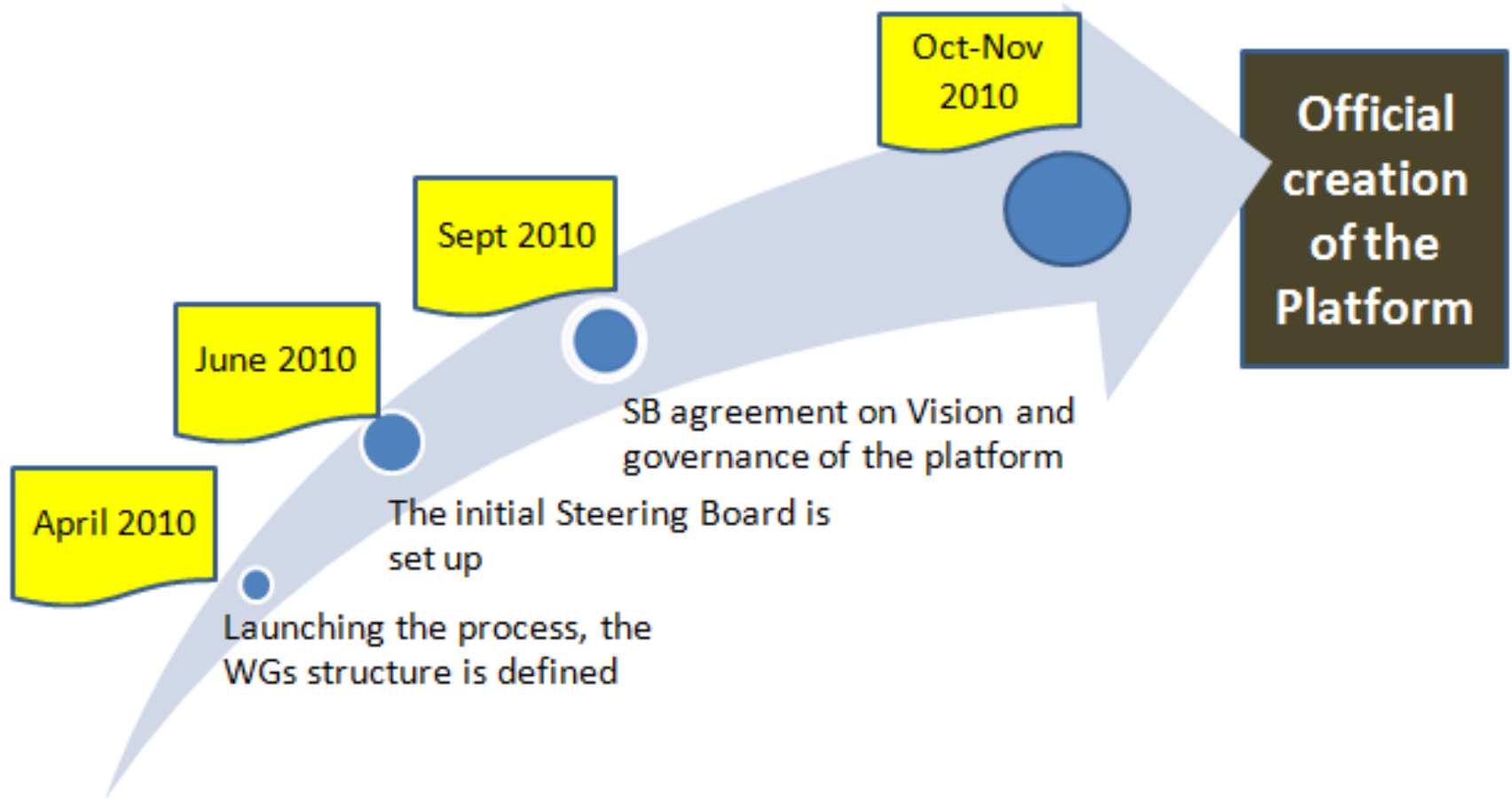
**Creación y mantenimiento de los links y cooperación activa entre las ETPS y la PTM**

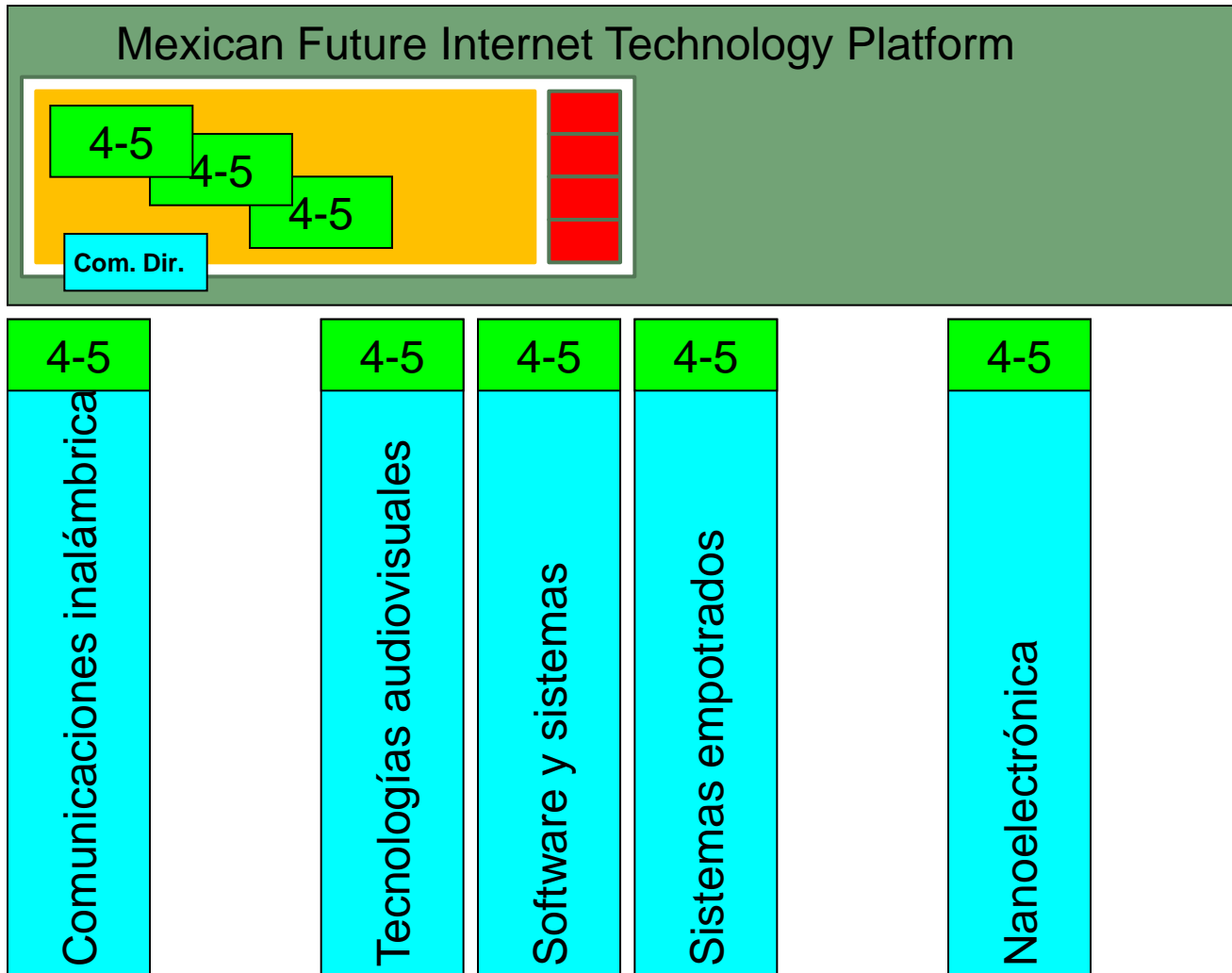


**Creación de una Estrategia Comun de I+D Regional entre EU-LatAm para la cooperación**



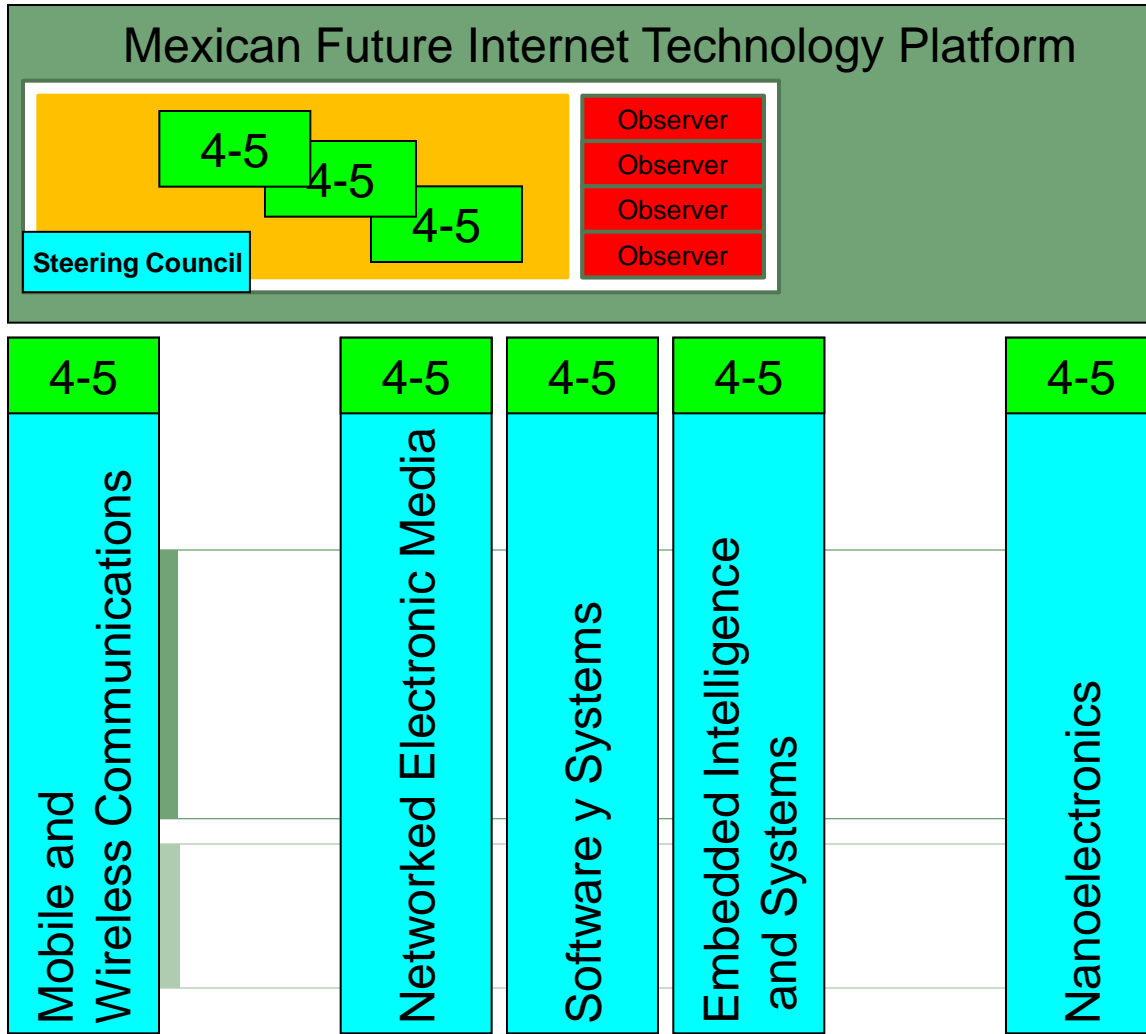
¿En que fase nos encontramos, que es lo que sigue?





- ▶ **Map yourself**
- ▶ **Propose possible leaders or additional members of the platform**
- ▶ **The *Com. Dir.* will discuss and define the Vision and governance of the platform**
- ▶ **Propose areas for projects proposals**

# First



### All 3D Imaging phone (3DPHONE)

#### Project description

The 3DPHONE project aims to develop technologies and core applications enabling a new level of mobile 3D experience, by developing an all-3D imaging mobile phone. The aim of the project is to realise all fundamental functions of the phone i.e. media display, user interface (UI), and personal information management (PIM) applications in 3D but usable without any stereo glasses.

Users will be able to:

- Capture memories in 3D and communicate with others in 3D virtual spaces
- Interact with their device and applications in 3D
- Manage their personal media content in 3D

The expected outcome will be a smartphone and a more conventional tablet and feature phone.  
The project will advance

- Implementing a mobile both 3D displays and multimedia applications to implement the most suitable

- Developing user interface for a 3D environment. The project will

- Investigating and implementing 3D recording, 3D playback and

- Performing ergonomics studies by stereoscopic content. The project will focus on the small screen, one hand

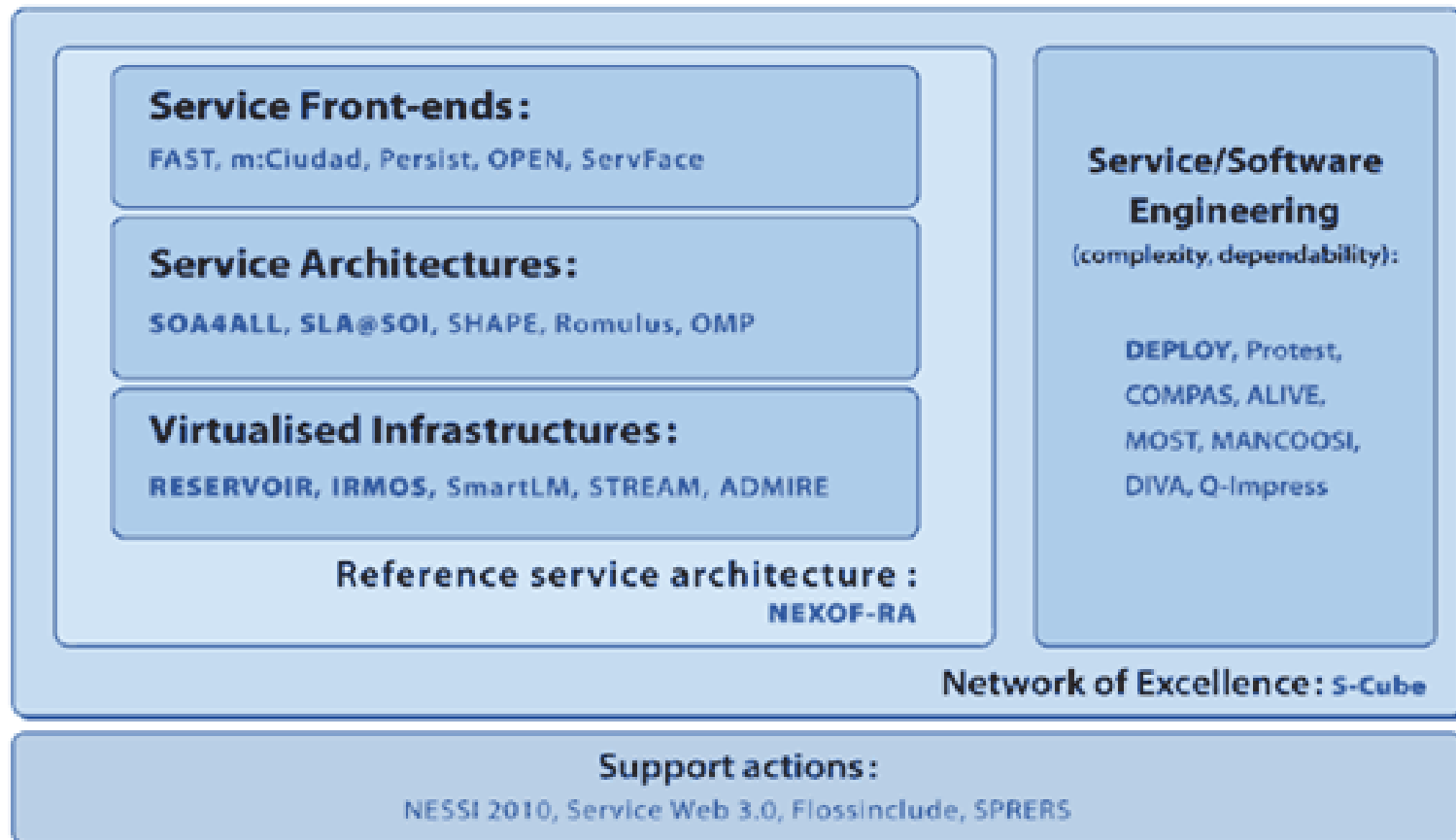
#### Project details

**Project Acronym:** 3DPHONE  
**Project Reference:** 213349  
**Start Date:** 2008-02-01  
**Duration:** 36 months  
**Project Cost:** 4.86 million euro  
**Contract Type:** Collaborative project (generic)  
**End Date:** 2011-01-31  
**Project Status:** Execution  
**Project Funding:** 3.46 million euro

#### Participants

|  |         |
|--|---------|
| FRAUNHOFER-GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V | GERMANY |
| HELSINGIN YLIOPISTO  | FINLAND |
| HOLOGRAFIKA HOLOGRAMELOALLITO FEJLESZTO ES FORGALMAZO KFT            | HUNGARY |
| TAT THE ASTONISHING TRIBE AB   | SWEDEN  |
| STREAMEZZO SA  | FRANCE  |
| TELEFONICA INVESTIGACION Y DESARROLLO SA                             | SPAIN   |

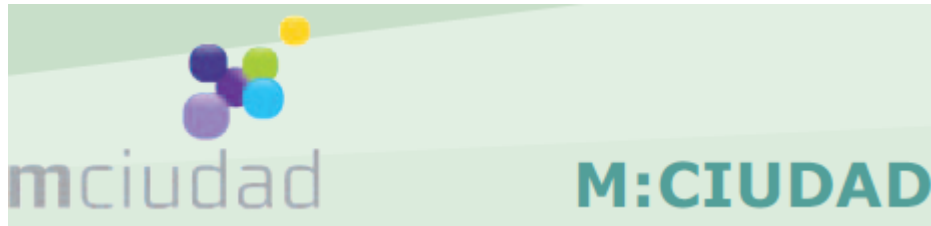
### Objective 1.2 "Service and Software Architectures, Infrastructures and Engineering"



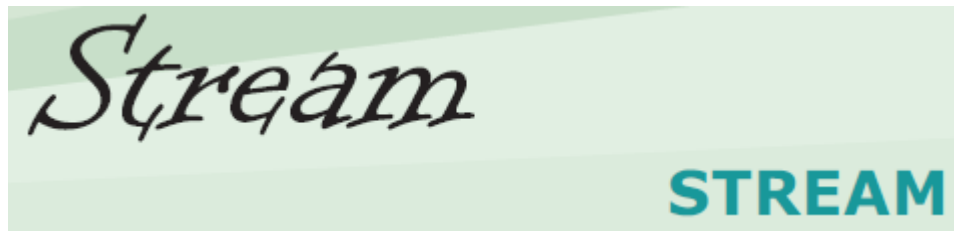
\* IP/NoEs in bold

# First

## Who and what? Examples of the past



The final goal of the m:CIudad project is to set up the basis for the engineering of a complete new service infrastructure, a metropolis of truly ubiquitous services, with the 'mobile as a service platform', the 'user adds value' paradigm and the 'very long tail' business model as its three main pillars.



A growing number of applications require the ability to process massive amounts of streaming data in real time: for example fraud detection in cellular telephony, security for enterprise networks, automatic trading, processing of the output of large scale ad-hoc networks, etc. Stream aims at providing a highly scalable middleware platform to enable a new breed of such applications.

### ▶ **Área audiovisual:**

- ▶ **WHO: NEM;** Thompson (Technicolor), France Telecom, Telefónica I+D, BBC, UPM, ...
- ▶ **WHAT:** Digital Media Delivery Platforms, Multimedia Search, Scalable, multimodal, real-time media (image, audio, and video including 3D media objects) search and retrieval technologies deployed over open platforms; Technologies and tools to enable end-to-end diffusion and efficient distribution of 3D, immersive, interactive media over the Internet
- ▶ 70 M€

### ▶ **Área software y servicios:**

- ▶ **WHO: NESSI;** SAP, Engineering, Atos Origin, Thales, Telefónica I+D, Siemens, BT, ...
- ▶ **WHAT:** Intelligent and autonomic management of cloud computing resources; Technologies for infrastructure virtualisation; Seamless support of mobile, context-aware applications; Advanced engineering for software, architectures and front ends; Quality measure and assurance techniques which adapt to changing requirements and contexts, to flexibly deal with the complexity and openness of the Future Internet.
- ▶ 68M€

### ▶ **Área Com. Satélite:**

- ▶ **WHO: ISI;** EADS Astrium, Thales Alenia Space, Astra, Space Hellas, DLR, Univ. Bologna, ...
- ▶ **WHAT:** broadband end-to-end connectivity reducing costs; seamless integration capabilities with Future Internet terrestrial based networks,
- ▶ 10 M€

### ▶ **Área Com. Inalámbricas:**

- ▶ **WHO: eMobility;** Nokia, NSN, Ericsson, CTTC, Fraunhofer, ...
- ▶ **WHAT:** Medium term evolution of LTE systems, Enabling technologies for flexible spectrum usage (Cognitive radio)
- ▶ 80M€

# *First*

*Be the first to join us ...*

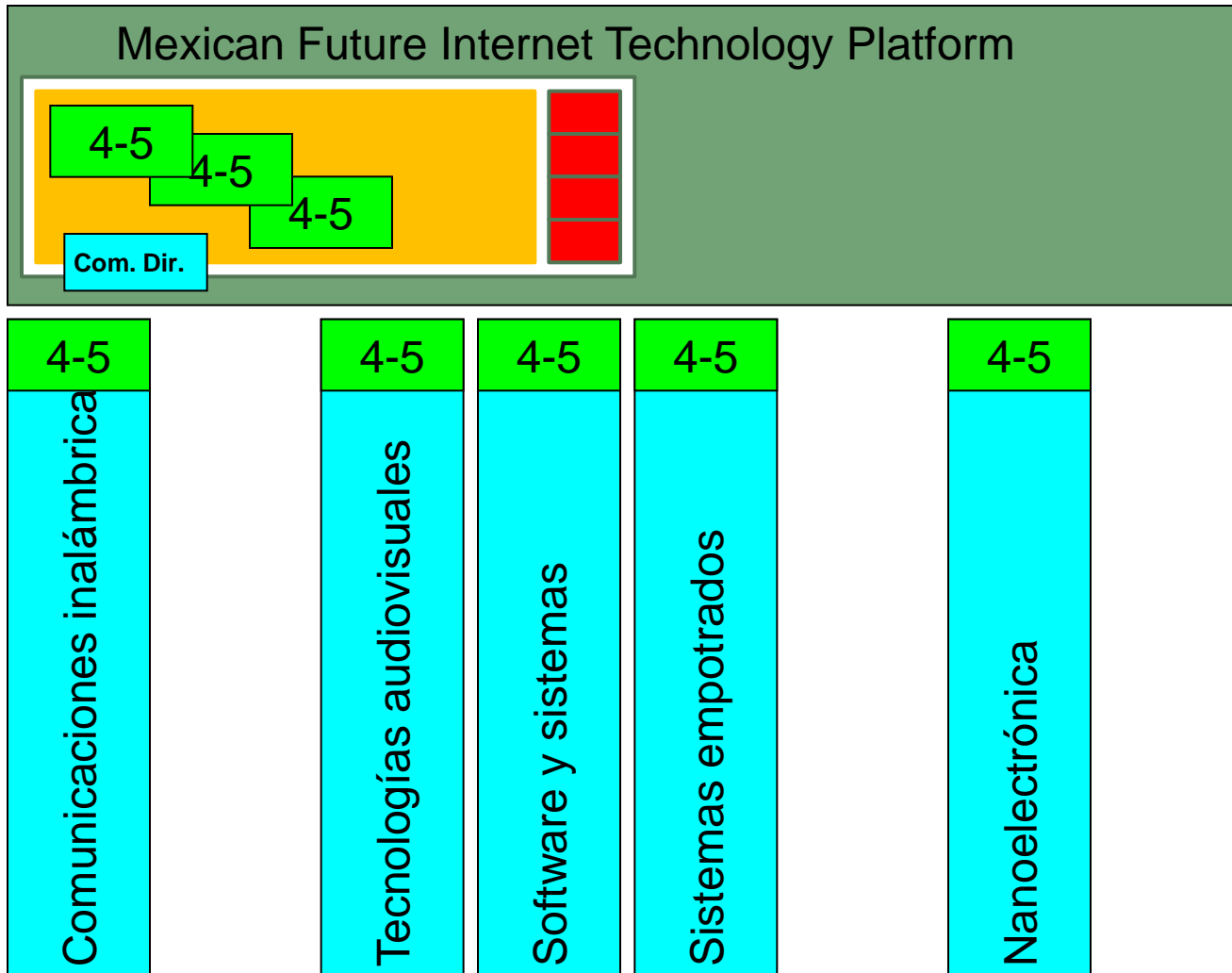
**[www.latin-american-technology-platforms.eu](http://www.latin-american-technology-platforms.eu)**

Thank you very much

*Project coordinator:* Antonio Alfaro ([alfaro@rose.es](mailto:alfaro@rose.es))

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