



Spanish Technology Platforms inside IST plan *Avanza*

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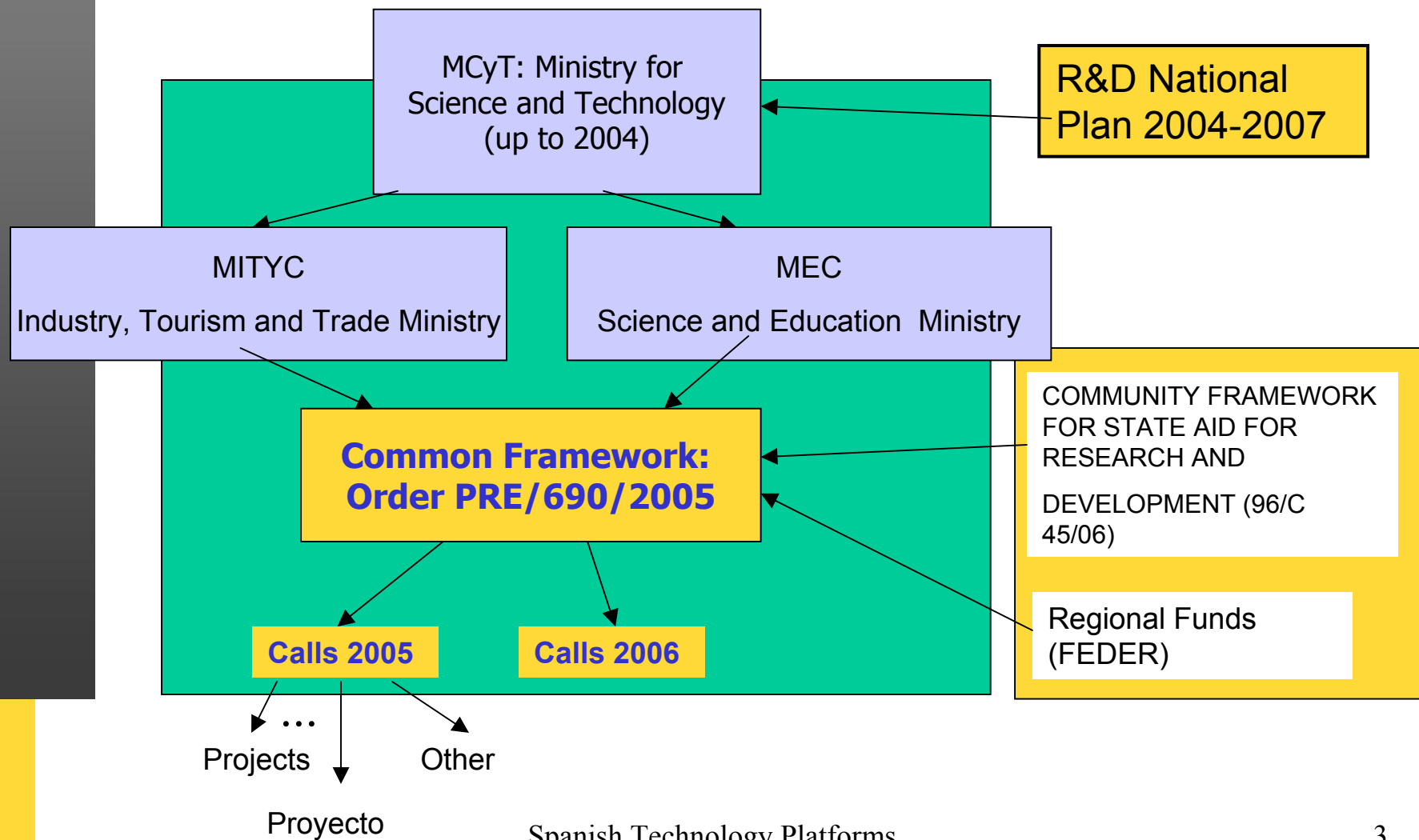


Agenda

- R&D National Plan 2004-2007
- Ingenio 2010
- Plan Avanza
- Spanish Technological Platforms
- Prometeo
- eSEC / eNEM / eMOV



R&D National Plan 2004-2007





Lisbon Strategy

Lisbon summit objectives for R&D on 2010

More investment

**EU investing 3% GPB on
R&D..**

More private commitment

**...at least 2/3 of investment
coming from private origin**

**European Commission expect if we get Lisbon objectives then we
would have additional rent increase in real terms of a 3% and an
additional increase of employment of 1.4% by 2010**



Ingenio 2010-Objectives

PROGRAMA

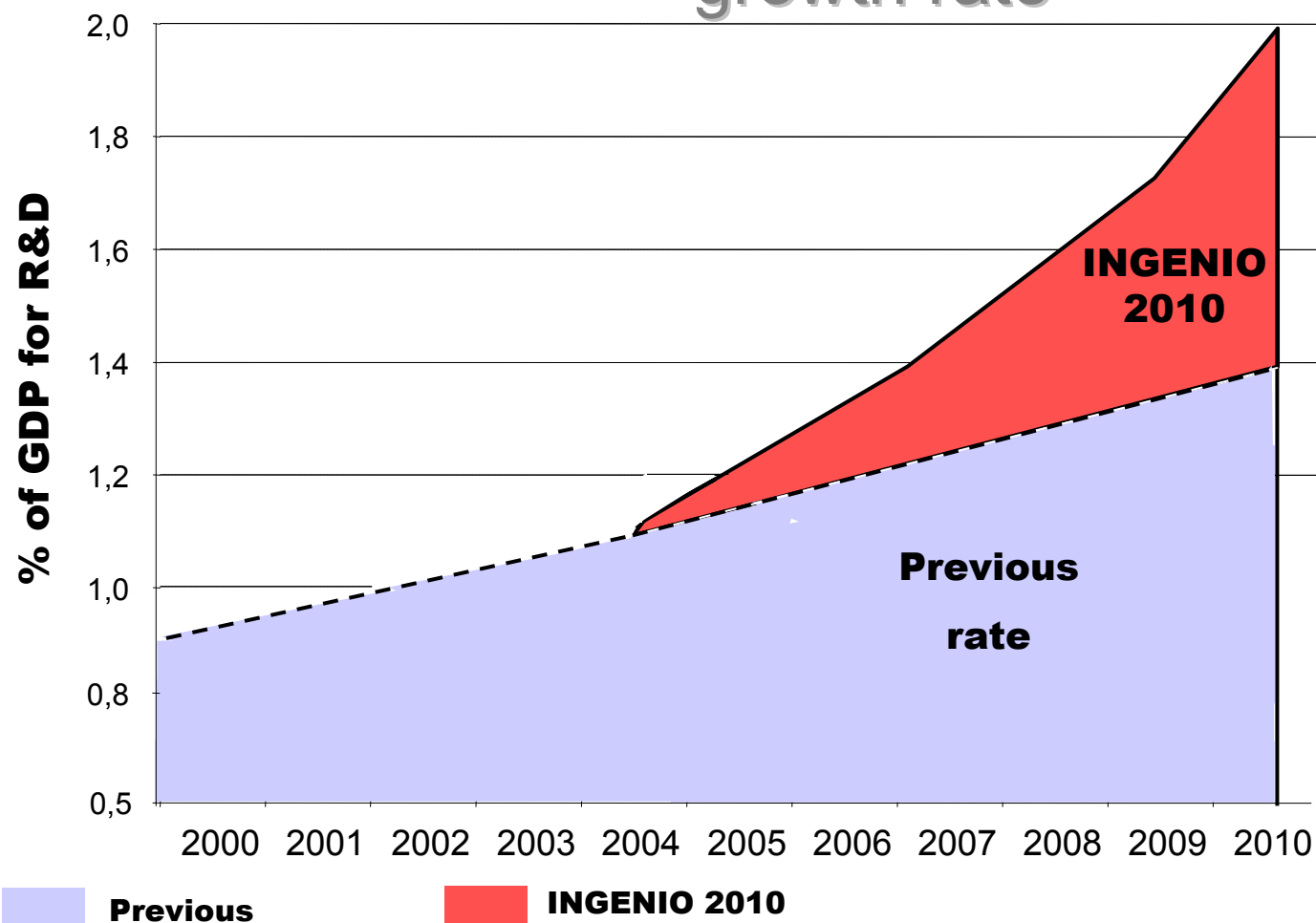
ingenio

The INGENIO 2010 Programme have the following objectives:

- reach a 2% of the GDP in R&D investment as of 2010.
- attain a 55% of private contribution in R&D investment as of 2010.
- make the public contribution in R&D investment increase up to 0,9% of the GDP as of 2010.
- have at least 1.300 doctors join the private sector every year, starting 2010.
- increase the number of new technological spin-offs to at least 130 new enterprises per year as of 2010.
- increase the percentage of the GDP devoted to IT to raise to EU standards, from 4,8% in 2004 to 7% as of 2010).



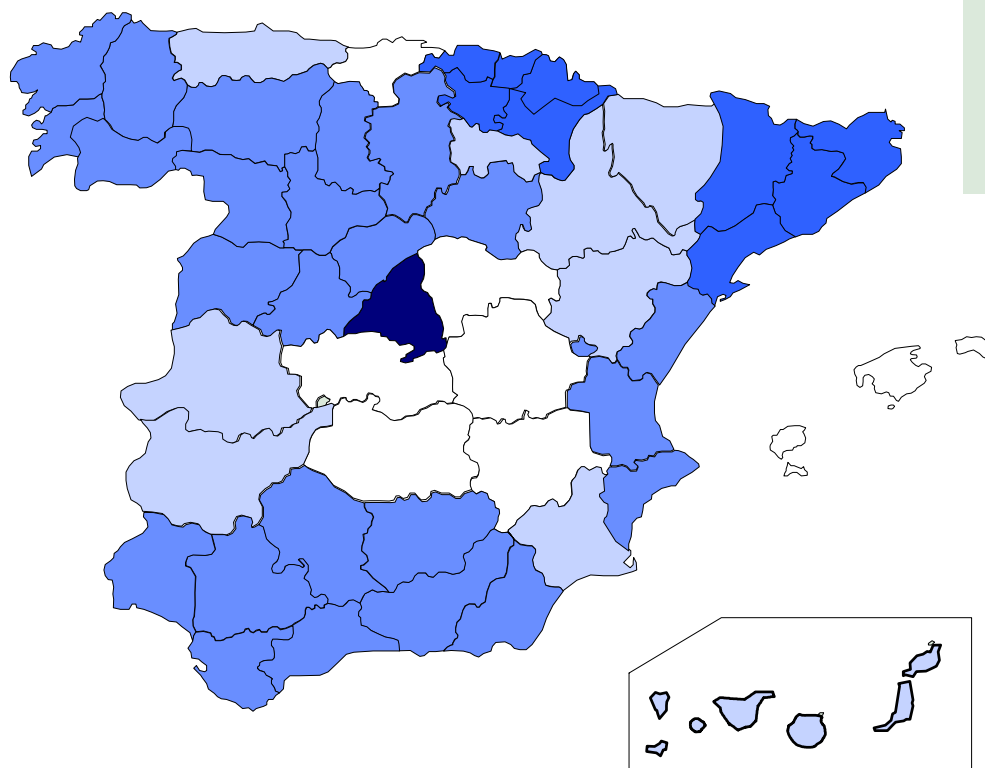
Ingenio 2010 - Changing previous R&D growth rate



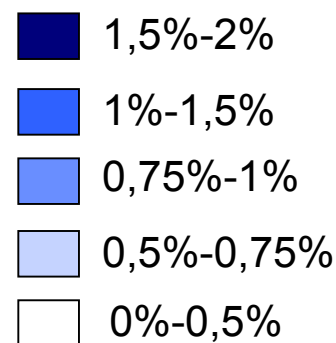


Spain Autonomus Regions – R&D Investment

R&D over GDP



Our delay in R&D affects to all the regions although in different degree. No one reaches the European average of 2%.





Ingenio 2010 -Instruments

The instruments provided by INGENIO 2010 to attain the expected results are:

- ❖ **More public resources devoted to R&D&I: to be increased a 25% yearly until 2008.**
- ❖ **New strategic programmes:**
 - 1. **CENIT, to increase public-private collaboration.**
 - 2. **CONSOLIDER, to increase the critical mass and excellence in research.**
 - 3. **AVANZ@, to attain Information Society convergence with EU**





PLAN AVANZA

- The *Plan Avanza*, is framed on the National Program of Reforms designed by the Government to fulfill the [Strategy of Lisbon](#).
- In particular, The *Plan Avanza* sites in the strategic axis of impulse to the R&D&i that has started up the Program [Ingenio 2010](#)
- **Main Objective:** the volume of the economic activity related to the IST approaches 7% of GDP by 2010.
- Need [joint effort](#) between:
 - Enterprises
 - Citizens
 - Public Administrations.
- The *Plan Avanza* forwards to [enhanced use of IST](#) to contribute to economic growth based on the increase of the competitiveness and the productivity, the promotion of the social and regional equality and the improvement of the quality of life for the citizens.
- The global objectives of the Ministry of Industry, Tourism and Commerce for the development of the Information Society will be developed in [specific objectives for each Region](#).



Plan Avanza – 5 Areas of performance

- **Home and Citizens**, measures are developed to guarantee the extension of the use of the IST in homes and the inclusion of all the citizens, extending the scopes of participation of the citizenship in the public life.
- **Competitiveness and Innovation**, directed to develop IST sector in Spain and solutions based on the use of the IST by the SME.
- **Education in the Digital Era**, incorporating the IST in the educative process and integrating all the agents who participate on it.
- **Digital Public Services**, will allow to improve services of the Public Administrations, increasing to the quality of life of the citizens and the efficiency of the companies.
- **The new Digital Context**, implanting new broadband infrastructures all around the country, generating confidence in citizens and companies in the use of the new technologies, providing advanced mechanisms of security in the new context.



Plan Avanza for Enterprises

- Two main areas starting 2006:
- Small and Medium Enterprises
 - 5 main measures: IT promotion, education, funds for equipment and electronic commerce, and other solutions
- Industrial IST Policy
 - 5 main measures, including patents, advanced demand, software factories, promotion of Spanish national technological platforms, and promotion of Spanish technology abroad.



Spanish national technological platforms

- SNTP are groups of excellence and coordination technical-scientist, made up of all the excellent actors in a certain area.
- Companies lead the platforms, but others also contributes:
 - Public R&D sector
 - Research centres
 - Public funding agents
 - User groups
 - Technological centres



SNTP Objectives

- SNTP aim to create the critical mass in Spanish industry to drive private and public resources at regional, national and European levels.
- SNTP must collaborate with all public administrations on activities of technological surveillance.
- SNTP must give support to Spanish Delegation on the “*Information Society Technologies*” committee on the framework program of European Union to defend Spanish interests.
- SNTP must prepare proposals on common public and private infrastructures for R&D more convenient.



Plan Avanza for SNTP objectives

- Promote international dimension of Spanish R&D
 - i.e. participation on Eureka Clusters
- Bring new companies to European programs
- Establish bilateral relations with other countries
- Enhance movement of people between different countries
- Enable creation of new SNTP



Spanish IT Platforms

- **ARTEMIS - PROMETEO:** Embedded Systems
 - <http://www.prometeo-office.org/>
- **eMobility - eMOV:** Wireless Communications
 - <http://WWW.AETIC.ES/eMOV>
- **ENIAC - GenesisRed:** Nanoelectronics on intelligent integrated systems
 - <http://WWW.GenesisRed.NET>
- **NEM - eNEM:** Networked Audiovisual Technologies
 - <http://WWW.AETIC.ES/eNEM>
- **NESSI - INES:** Software and Services
 - <http://www.ines.org.es/>
- **eSEC:** Tecnologías for Security and Confidence
 - <http://WWW.AETIC.ES/eSEC>



Artemis - Prometeo

PROMETEO

Plataforma Tecnológica Española de
Sistemas con Inteligencia Integrada



- Embedded Systems



PROMETEO

- **PROMETEO is the Spanish Technology Platform for embedded systems. It aims to create a technological and scientific cooperation network among the most important stakeholders in the IT sector (industry, universities, research centers, etc.)**
- This platform has been established in May 2005 and is integrated by the most relevant agents in the area of embedded systems (organizations, universities and research centres)



Prometeo objectives

- Define a **work program and an agenda for strategic research** adapted to Spanish specific needs and capabilities. This must include the definition of proposals for innovative and strategic projects as well as the specification of the high priority projects in the medium and long run.
- Create the **critical mass to generate and transfer technologies and coordinate the development efforts** and lead them to the satisfaction of Spanish market's needs.
- **Support Spanish industry and technological stakeholders** in their participation to the VII Framework Program



PROMETEO application contexts

Industrial Systems

Automotive

Aerospace

Manufacturing

Mobile Domain

E-payments

Mobile devices' interaction

Private Spaces

Houses

Consumer systems

Vehicles

Public Infrastructure

Environmental systems

Transport systems

Public supply chains

Telecommunications



Research domains proposed in PROMETEO

- **Reference Designs and Architectures:** Research topics defined in this domain include security and safety, hardware platforms, mobility and accessibility, intelligence control systems, peripherals and interfaces and critical safety systems and real time.
- **Seamless connectivity, middleware:** Research topics defined in this domain include artificial intelligence, distributed middleware, complex data management., operating systems, service technology, resources management, communications and transmission, context reaction, sensors and actuators and user interface.
- **Systems design methods & tools:** Research topics defined in this domain include methodologies, languages and tools, validation and verification, reuse and product lines policy, certification.
- **Foundational sciences and technology:** PROMETEO will be pushing the following research areas in this field:



MINISTERIO
DE INDUSTRIA, TURISMO
Y COMERCIO



Asociación de Empresas de Electrónica,
Tecnologías de la Información
y Telecomunicaciones de España

3 Spanish Technology Platforms in the IST area



PLATAFORMA TECNOLÓGICA ESPAÑOLA DE TECNOLOGÍAS PARA SEGURIDAD Y CONFIANZA



Plataforma Tecnológica Española de Tecnologías Audiovisuales en red



Plataforma Tecnológica Española de Comunicaciones Inalámbricas

TRUST & SECURITY
WIRELESS COMMUNICATIONS
NETWORKED AUDIOVISUAL
TECHNOLOGIES



Previous

The European Council proposes –in its conclusions of the latest Spring Council- the Technology Platforms as a necessary tool of public-private cooperation to promote a higher growth and employment based on knowledge.

The Spanish Technology Platforms arose due to the necessity of the Spanish industry to define the strategic lines of Research and Development in Spain. They are supported by the Spanish Ministry of Industry, Tourism and Trade, Ministry of Education and Science and CDTI (Spanish Centre for the Technological and Industrial Development).

AETIC, as a developer of the IST sector in Spain , assumed the important role of enhancing these three platforms:

- 1. Wireless Communications, *eMOV***
- 2. Networked Audiovisual Technologies, *eNEM***
- 3. Trust and Security Technologies, *eSEC***

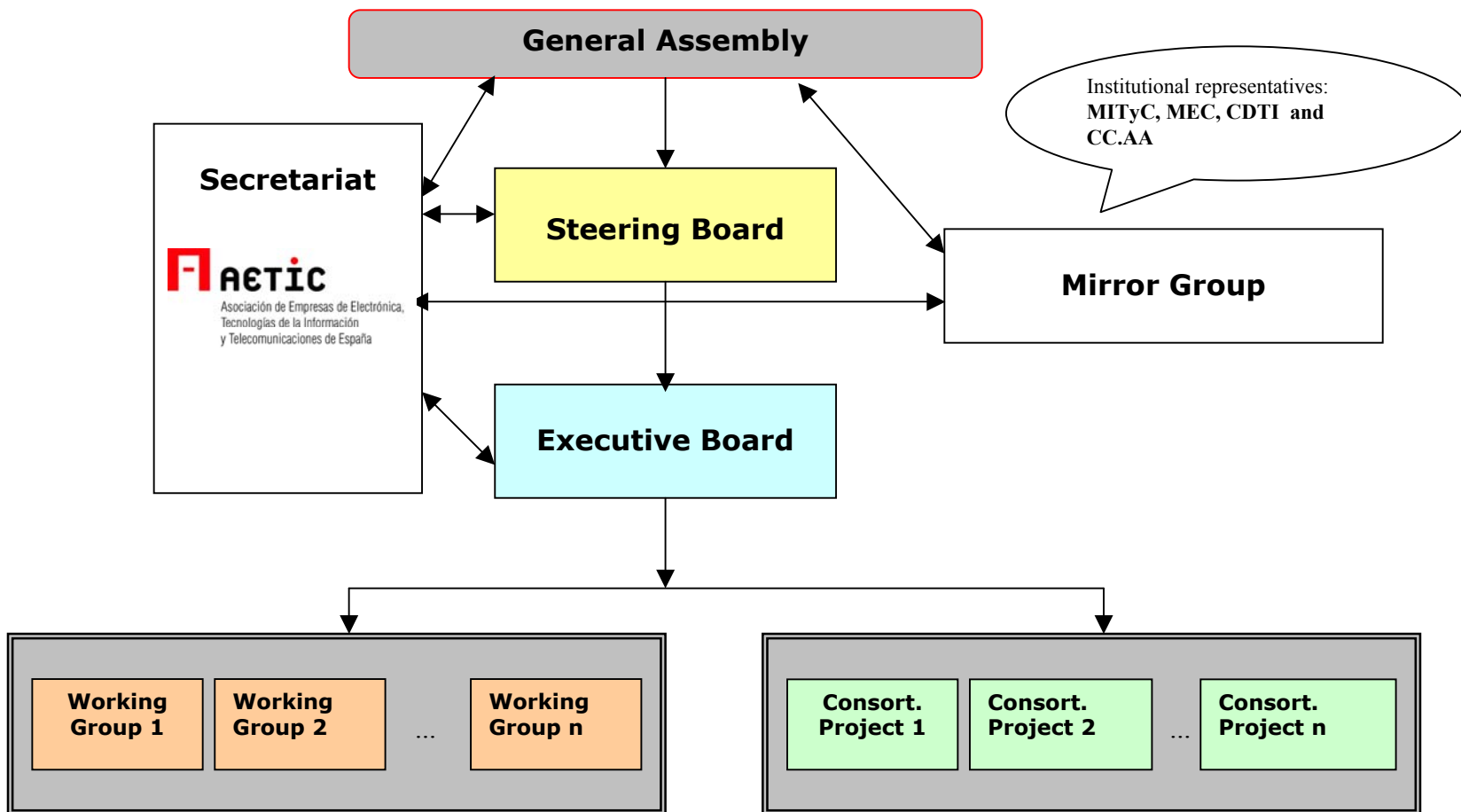


Aims

- To complete and keep updated the Strategic Research Agenda.
- To advise national authorities (Ministries, CDTI, Regional authorities) on defining their national research programmes. Collaboration with Spanish Public Administration in the prospective and technological vigilance activities.
- To strengthen the Spanish participation in the European programmes and institutions: FP6, EUREKA, European platforms (NEM, eMobility).
- To generate strategic high priority R&D projects to be supported by national and European plans.
- To support strategic national and high quality proposals in the appropriate call, at any level: European, national or regional.



Structure





Working Groups



PLATAFORMA TECNOLÓGICA ESPAÑOLA DE TECNOLOGÍAS PARA SEGURIDAD Y CONFIANZA

WG1. Identification and Control

WG2. Infrastructure security

WG3/4. Data protection and security. Intellectual property and fraud protection

WG5. Horizontal activities (regulation, normalization, certification)



Plataforma Tecnológica Española de Tecnologías Audiovisuales en red

WG1. Public and private production, management, storage, index and protection of content

WG2. Networks infrastructures and delivery networks

WG3. Services and applications

WG4. Terminals and user devices

WG5. Horizontal activities (regulation, normalization, certification)

WG6. Alignment to the European Platform NEM
Spanish Technology Platforms



Plataforma Tecnológica Española de Comunicaciones Inalámbricas

WG1/4. Ambient services. User and acceptance experience

WG2. Ambient connectivity

WG3. Radio and radio spectrum interfaces

WG5. Businesses infrastructure

WG6. Horizontal activities

WG7. Alignment to the European Platform eMobility



Activities in 2005 (I)

May 13, 2005

-Constitutive meeting of eNEM

May 18, 2005

- Constitutive meeting of eSEC

June 3, 2005

- Constitutive meeting of eMOV

June 14, 2005

-Launch of the three Platforms

July 2005

-Creation of the working groups and tasks kick-off



Activities in 2005 (II)

September 2005

- **Website** Implementation

October 17 and 18, 2005

- **Launch of the Spanish platform eNEM in the General Assembly of the European platform NEM. Joint meeting of eNEM/NEM in the Universidad Politécnica de Madrid**

November 23, 2005

- **Launch of the Spanish platform eMOV in the General Assembly of the European platform eMobility**

December 2005

- **Three General Assemblies of Spanish platforms**
- **Spanish SRAs: 1st edition**



Workplan 2006

- ***Revision of the SRAs***
- ***RDI (Research, Development and Innovation)
Mapping of competencies definition***
- ***Promoting and dissemination activities
(infodays, workshops, web, relations to EC and
Spanish public administration, etc.)***
- ***Promotion of RDI cooperative projects in the
European and national calls (creation of
consortia, infodays, support to proposals, etc.)***
- ***General Assemblies***



Next steps

- ***Proposal for Launching of the Spanish Technology Platform of Satellite Communications (eISI)***
- ***Promotion of a “platform label” as a support for the Spanish proposals***
- ***Creation of working groups between the platforms and the Spanish Administration in order to take into account the SRAs in the R&D programs.***



How to participate

⇒ The three platforms are opened to every Spanish agent interested in contributing actively to the R&D and Innovation Spanish system:

⇒ **eNEM**

⇒ ***More than 160 people***

⇒ ***More than 80 entities***

⇒ **eSEC**

⇒ ***More than 130 people***

⇒ ***More than 70 entities***

⇒ **eMOV**

⇒ ***More than 170 people***

⇒ ***More than 90 entities***



Contact

For further details, please visit the platforms websites or contact by email.

www.aetic.es/esec www.aetic.es/enem www.aetic.es/emov

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Thank You

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