

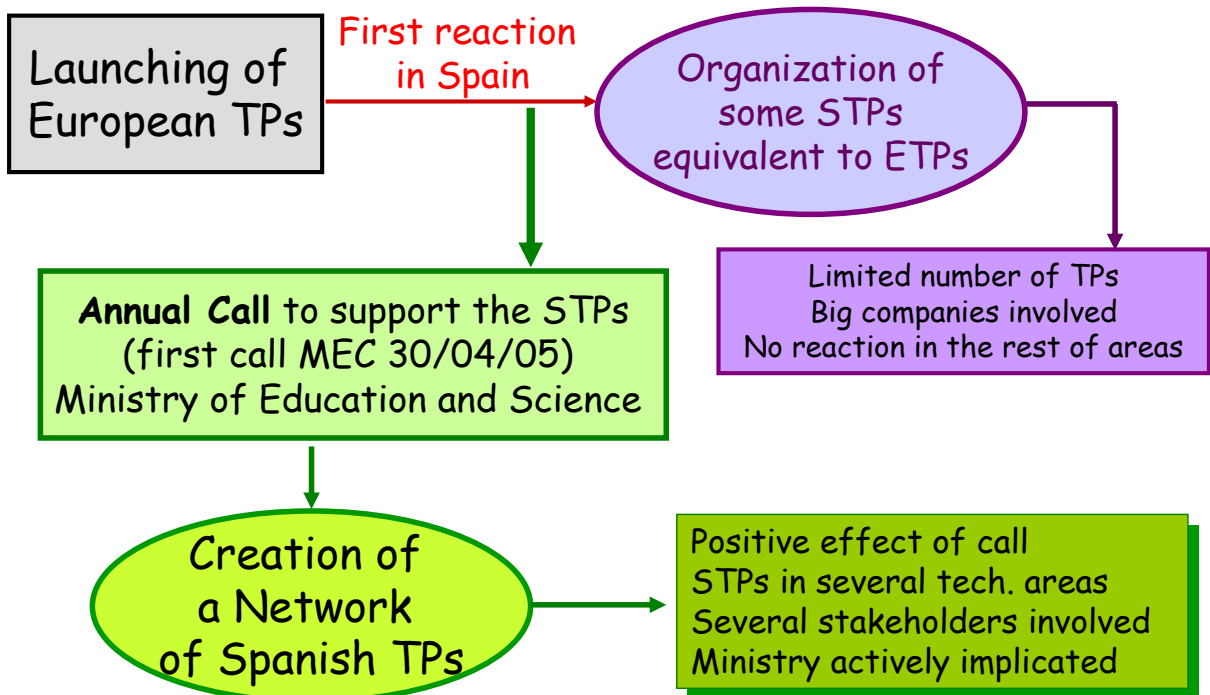
Spanish Technology Platforms

MINISTRY OF SCIENCE AND INNOVATION

Meeting ERTRAC - National Platforms
Budapest, 5th September, 2008

SPANISH TECHNOLOGY PLATFORMS

Origin of the Spanish Technology Platforms (STPs)



❖ Some definitions

- **Forum** of discussion and tool for a technology area
- Instrument to identify, develop and review **technology initiatives**
- **Advisory** group on research for public and private institutions

❖ Objectives

- **Promotion and impulse** of technology development and innovation
- Creation of a **culture of innovation** based on knowledge
- **Definition of priorities** and coordination of R&D activities
- Proposals of **R&D Projects**
- Identification of a **common strategy** on R&D
- Activation of development and use of innovative technologies and industrial processes
- Search of technological **opportunities** for industry
- Determination of technological, social, economic and regulation **barriers** for technology development and use

HEALTH AND BIOTECHNOLOGY

- Innovative medicine TP
- Nanomedicine TP
- e-Health TP

INDUSTRIAL PRODUCTION

- Manufacturing TP
- Steel TP
- **Industrial Safety TP**
- Robotics TP

CONSTRUCTION

- **Construction TP**

COMMUNICATIONS

- eISI
- e-MOV
- **ARTEMIS-PROMETEO**
- ENIAC
- eNEM
- eSEC

ENVIRONMENTAL

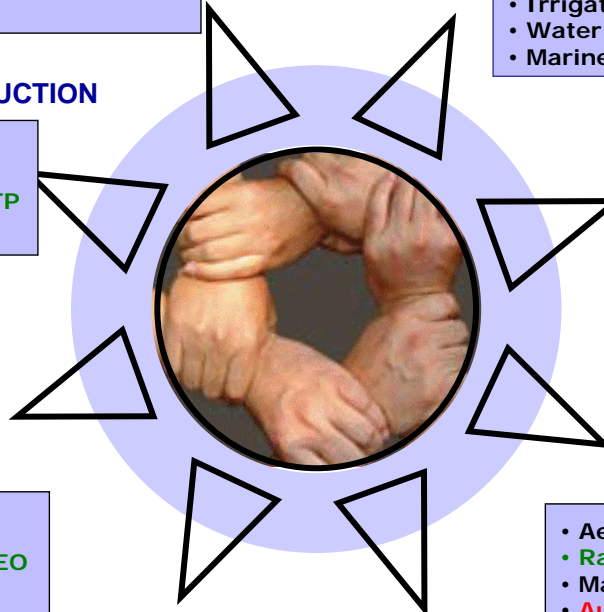
- Sustainable chemistry TP
- Forestry TP
- Irrigation TP
- Water in Canary island TP
- Marine contaminants TP

ENERGY

- Photovoltaic TP
- **H₂ and Fuel Cells TP**
- Wind TP
- **Electricity Network TP**
- CO₂ TP
- Biomass TP
- Fusion TP
- Fission TP

TRANSPORT

- Aerospace TP
- **Rail TP**
- Maritime TP
- **Automotive Components TP**
- **Logistic TP**



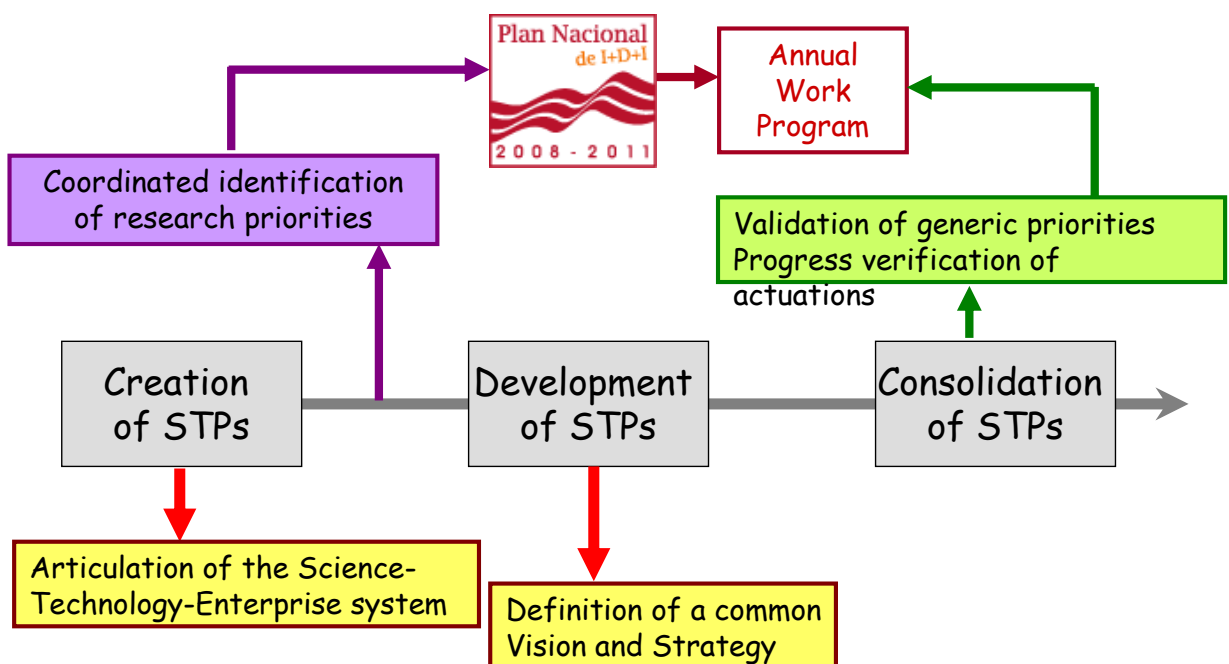
STPs related to road transport

STPs partially related to road transport

Impact of STPs after 3 years' experience

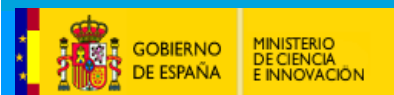
- ❖ **Articulation** of Science - Technology - Enterprise system:
Analysis of the technological sectors: opportunities, capabilities, weaknesses, deficiencies, etc.
- ❖ First experience of definition of a **common vision and strategy** by relevant stakeholders from public and private sectors.
- ❖ Definition of the industrial **research priorities** in collaboration with academic agents.
- ❖ Contribution to the preparation of the **National R&D Program 2008-2011** and annual workprogramme.
- ❖ Identification of **future needs** on education and training
- ❖ Preparation of national and international **research projects**

STPs and National Research, Development and Innovation Program (2008-2011) No thematic priorities

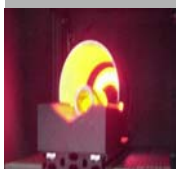




Spanish Technology Platform of the Automotive Sector



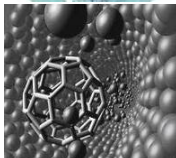
SERtec



SERtec, the Spanish Technology Platform of the Automotive Sector, was launched in March 2006, as an initiative of five institutions linked to the Automotive sector:



SERNAUTO: Spanish Association of Automotive Equipment and Components Manufacturers, as main proposer and coordinator.



CIE AUTOMOTIVE: Manufacturer of automotive components and sub-assemblies.



FITSA: Foundation Technological Institute for Automotive Safety.



TECNALIA AUTOMOCIÓN: Automotive Sector Unit of TECNALIA Technology Corporation.



INSIA-UPM: Institute for Automotive Safety and Research linked to the Polytechnic University in Madrid.

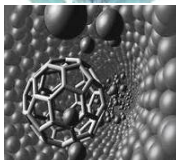
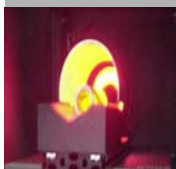


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The Automotive Sector in Spain



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3rd largest car maker in Europe and **7th in the world**. The biggest constructors manufacture in Spain, however, they do not have decision centres and only scarce R&D activity in Spain.

Largest producer of industrial vehicles in Europe: More than 82% of the vehicles are exported to 90 countries in the world.

Strong equipment and component manufacturers industry:

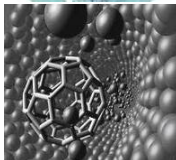
6th in the world in turnover: 32.873,2 M€ in 2007 (54% exports) and over 250,000 employees.

1000 companies, representing 6% GNP, from SMEs to large international groups.

Strong innovation capability and experience, quality certifications: average R&D investment of about 3% turnover.



Objectives



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SERtec is a **means of developing and monitoring** initiatives among the different **agents involved in the sector's chain of innovation in Spain**, in order to **create a culture of innovation and a common course of action** with the aim of **increasing the competitiveness** of automotive sector companies in view of the new challenges they face, through research, development and innovation in products and processes.

General objectives:

- ✓ Foster **cooperation in R&D** and innovation.
- ✓ Achieve the European leadership of the sector.
- ✓ Promote and increase **participation in European Research Programmes**.
- ✓ Generate **high added value products and differentiating technologies**.
- ✓ Promote sustainability, employment and value chain

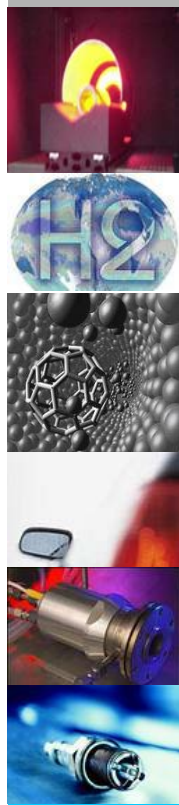
Specific objectives:

- ✓ Creation of **research consortia**.
- ✓ Promote the **integration** and capacity University-Technological Agents-Companies
- ✓ Define the **Strategic Research Agenda**
- ✓ Establish the **short, medium and long term sector priorities**.

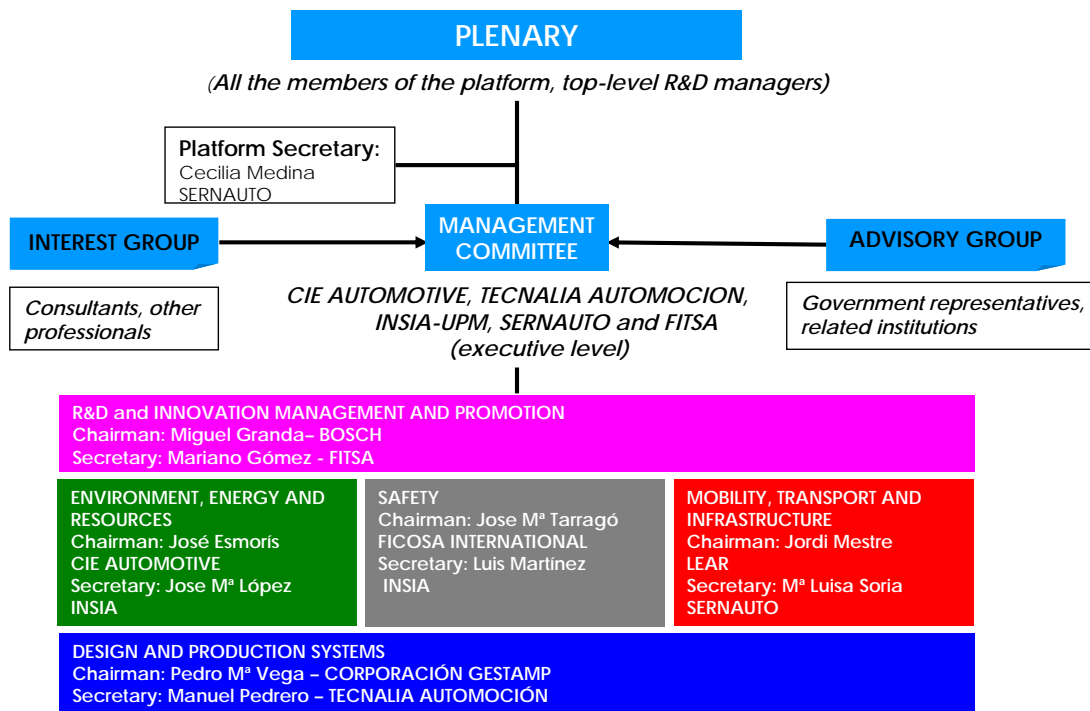




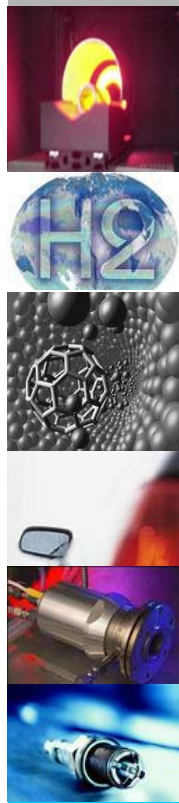
Organisation



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Members



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Plenary: 99 members participating actively in the working groups:

- Suppliers of the automotive sector (from SMEs to large industrial groups)
- Suppliers of ICT for transport and infrastructures
- Universities
- Technological Centres
- Engineering companies
- Related Spanish TPs
- Representatives of Public Administrations, Clusters

Interest group: 11 participants (Consultants, professionals)

Advisory Group: 16 participants (Public Administrations, Unions, Agencies, Clusters)





Working Groups



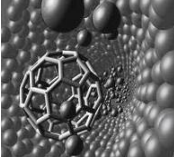
Environment, Energy and Resources:

- Engines & propulsion systems, emissions reduction & control.
- Fuels and how to improve their use in vehicles.
- Implications of end-of-life cycles in vehicles, together with the **Design and Production Systems WG**.



Safety:

- Primary, secondary and tertiary safety.
- Connections with infrastructures and other vehicles, together with the **Mobility WG**.
- Aimed at reducing accidents & minimising consequences.



Mobility, Transport and Infrastructure:

- Links between all aspects of the new vehicle communication needs (comfort, information, etc.) and implications for safety, together with the **Safety WG**.
- Infrastructures and technologies which link vehicle & road.



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Working Groups



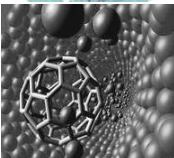
Design and Production Systems:

- Implications of automotive product development.
- Use of new technologies and the necessary tools and organisation.
- Manufacturing resources and organisation.
- Materials and their implications in design and/or production.



R&D and Innovation Management and Promotion:

- Use and direct application of R&D and innovation in the companies' day-to-day activities.
- Better management of basic and applied technological know-how.
- Review of specifications and legislation related to automotive sector.



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Activities 2006-2008

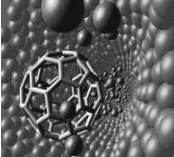


Kick-off and set up of the **five working groups** (March-September 2006).



Definition of **SRA priorities** based on ERTRAC SRA, but adapted to Spanish scenario.

Webpage: www.plataformasertec.es



SERtec SRA presented in April 2007: Priorities included in the **Workprogramme of the Spanish Research, Technological Development and Innovation National Programme 2008-2011**.



Brokerage events on R&D Projects: some national projects already running or under evaluation.



Coordination meetings with other TPs and with the Advisory Group of the Transport Sector.



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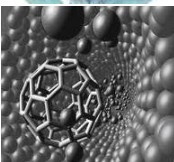
Activities 2006-2008



Bilateral meetings with related TPs to identify common interest areas, synergies and opportunities.



Unit of International Innovation to promote participation in international programmes, support the preparation of high quality proposals and collect and integrate the areas of interest of the Spanish industry in the definition of the priorities of EU FP workprogrammes.



Participation in national and international forums.



Launch of a **Pedestrian Protection Forum** (Safety WG).



Campaign to evaluate **the innovation level and needs of the SMEs** of the automotive sector (**R&D Management and Promotion WG**).

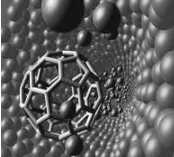


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Coordination with other Spanish TPs



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Transport :

- Logistics (LOGISTOP)
- Rail transport (PTFE)
- Maritime transport (PTE Maritime)

ICT :

- eSEC (Security and Dependability Technologies)
- eISI (Satellite Communications)
- eNEM (Networked Audiovisual Technologies)
- eMOV (Wireless Communications)

Fuel cells and Hydrogen (PTEFCH)

Road construction (PTE Construction)

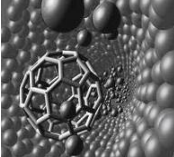
Security (PESI)

Energy (FUTURED)



Topics related to transport in ICT Spanish TPs

- **eSEC (Security and Dependability Technologies):** Security in logistics and transport; Trust and security of mobile solutions; RFID rules; Border management; Protection of critical infrastructures; Security in tourist environments; Crisis management.
- **eISI (Satellite Communications):** Mobile communications; GMES, Galileo.
- **eNEM (Networked Audiovisual Technologies):** Convergence of access means; Multimedia – multicast; Convergence of services; Services for leisure and tourism; Mobile television technology.
- **eMOV (Wireless Communications):** Mobile applications in sectors with low penetration of wireless communications; Platform for deployment and execution of new mobile services; Final applications; Fitting of services, applications and interfaces for specific groups; Text introduction facilities; Authentication and security systems; Ubiquitous connectivity.



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Thank you for your attention!

María Luisa Soria

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