

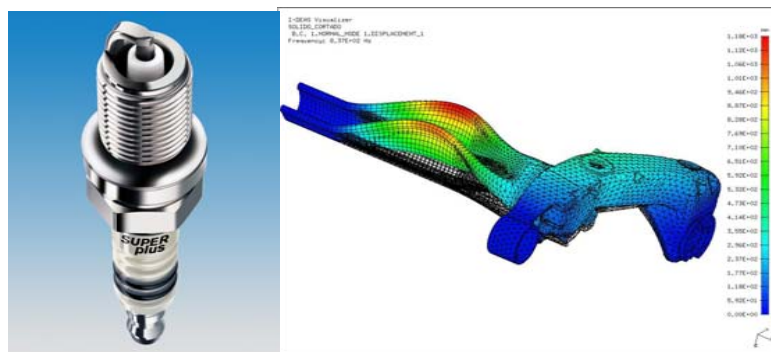


***First Call for Proposals in the  
area of Sustainable Surface  
Transport***

***Madrid, February 16th 2007***



The Objective is to become the **development and follow instrument** of the **initiatives** between the different partners involved in **the innovation chain** of the sector in Spain, in order to create a working commun line **to increase the competitiveness of the companies of the automotive sector** in Spain facing the **new challenges** , through the **developments of R&D in products and processes**.



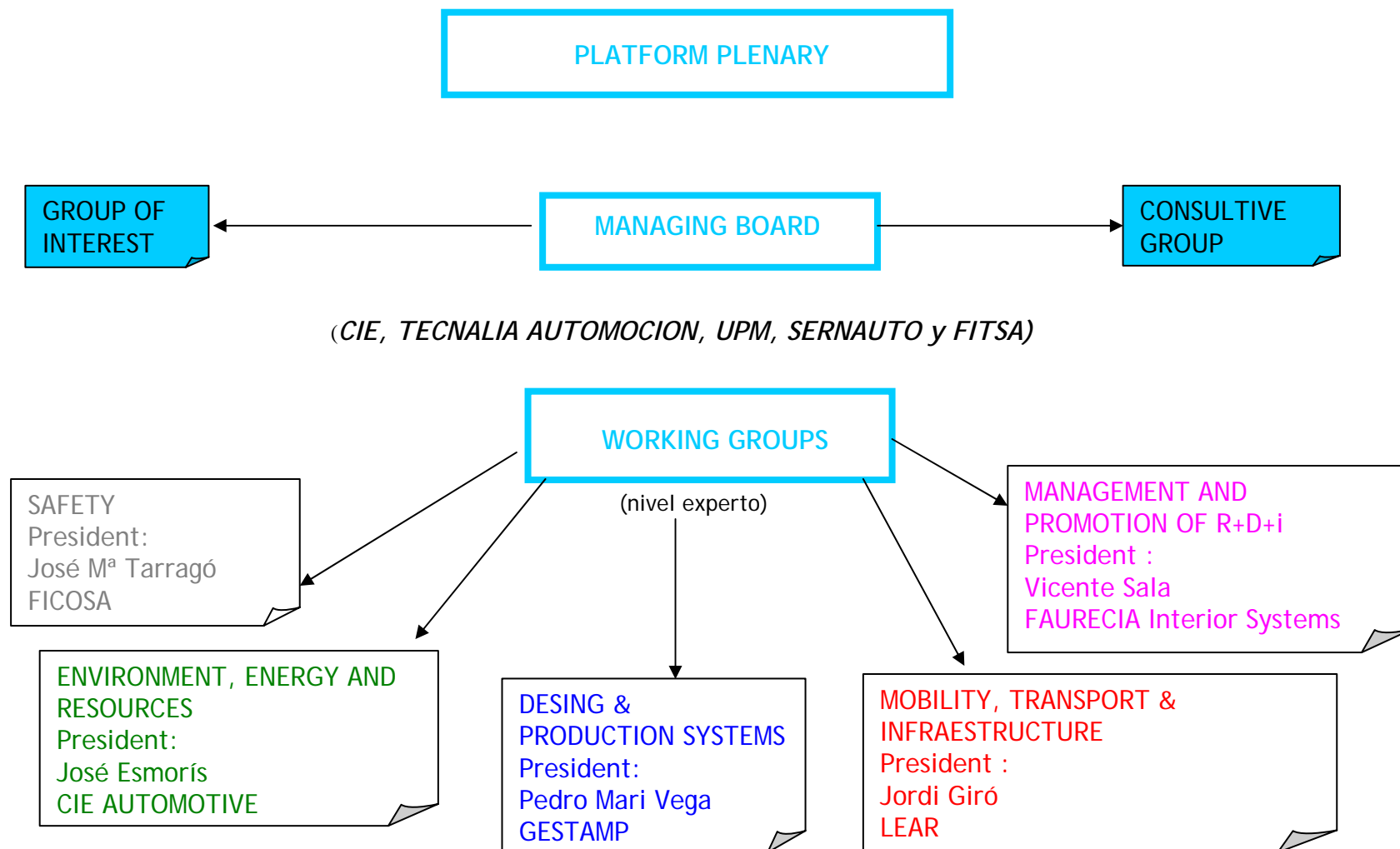


35 Enterprises

11 Universities

23 Technological Centers

SERNAUTO is the coordinator of the Platform:





## FOCUSSING OF THE WORK GROUPS

**3 FOCUS ON PRODUCT / TECHNOLOGY**

**1 FOCUS ON INNOVATIVE PROCESSES**

**1 FOCUS ON R&D+i PROMOTION AND MANAGEMENT**

### R&D+i PROMOTION AND MANAGEMENT

**ENVIRONMENT,  
ENERGY  
& RESOURCES**

**SECURITY**

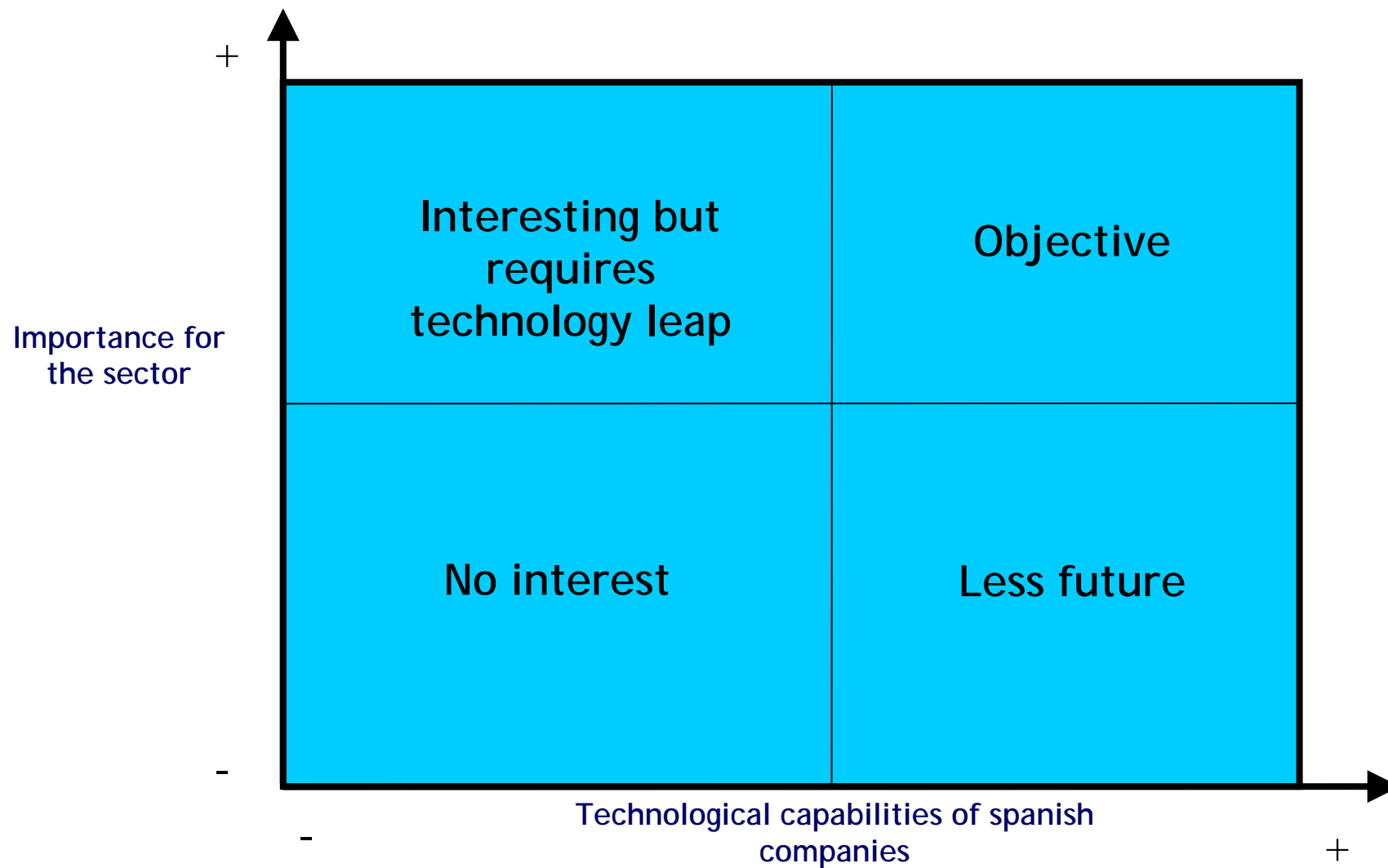
**MOBILITY TRANSPORT  
AND INFRASTRUCTURE**

### DESIGN AND PRODUCTION SYSTEMS

All this in accordance with the priority lines of the FP7 and the challenges of the car makers which are determined in ERTRAC

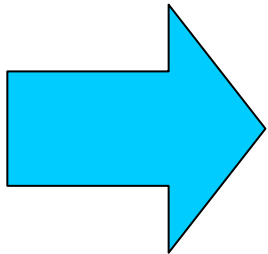


## TARGET: IDENTIFY KEY TECHNOLOGICAL AREAS





1. Drafting of the survey
  - Concepts
  - Factors of evaluation
2. Meet to seek consent
3. Handling of the surveys
4. Conclusions meeting in groups with related groups
5. Elaboration of the draft of the Strategic Plan (February 2007)
6. Consent (March 2007)
7. Presentation of the conclusions to the government





### SYNTHESIS OF THE OBTAINED RESULTS:

- Studies and shaping of opinion of the different emission models. Impact and alternatives.
- New fuel concepts
- Improvement of the equipments/engines in order to be more efficient
- Storage systems
- Hydrogen technologies
- Traffic and driving management systems

### OTHER SUBJECTS:

- Importance of hybrid engines
- Recycling and materials issues





### **Impact Assessment:**

- Impact Studies, models.
- Sensors, materials and vehicle technologies.
- Protection for vulnerable road users.

### **Preventive:**

- Accidentology
- ADAS
- Special vehicle for public transportation, handicap,...

### **Comun with Mobility:**

- Cooperative systems for efficiency, safety, infrastructure service, mobility.
- e-call.
- HMI



### DESIGN:

- Importance of the integration of the product development concepts at the companies.
- Fundamental importance and application of the Technology Surveillance in issues which are related to necessities, technologies and products of the company.
- The development of the product has to be accompanied directly by the application of the concept of recycling (design for assembly and disassembly).
- IT tools are basic for shortening the time to market.
- A big effort has to be done in the training of skilled and motivated professionals, and specially, in the identification of specialists in key sectors and key technologies.



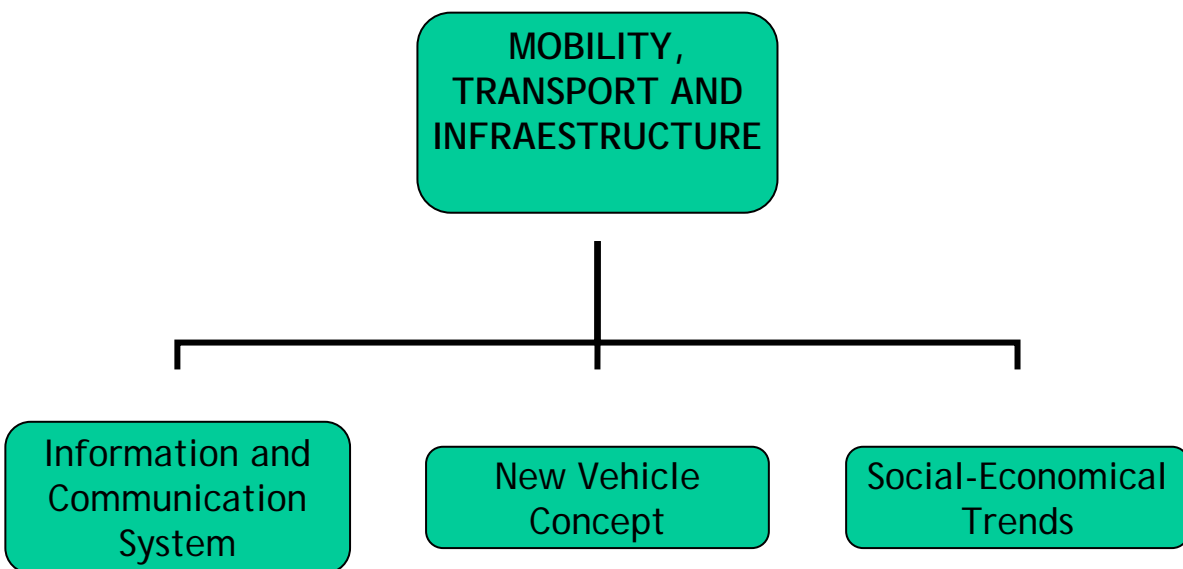
### PRODUCTION:

- Effective integration of the means of production. Searching of “excellence” in lean production systems.
- Highest respect for the environment in terms of the utilisation of resources, emission and management of waste products, accepting and complying with the goals of Kyoto.
- More friendly and intuitive interfaces, as mean to improve the local productivity (machine, cell, workshop) and the global productivity (plant, company).
- Active quality control. Implicit in the manufacturing process, as well as explicit in order to guarantee that the product or supply meets the customer’s expectations.



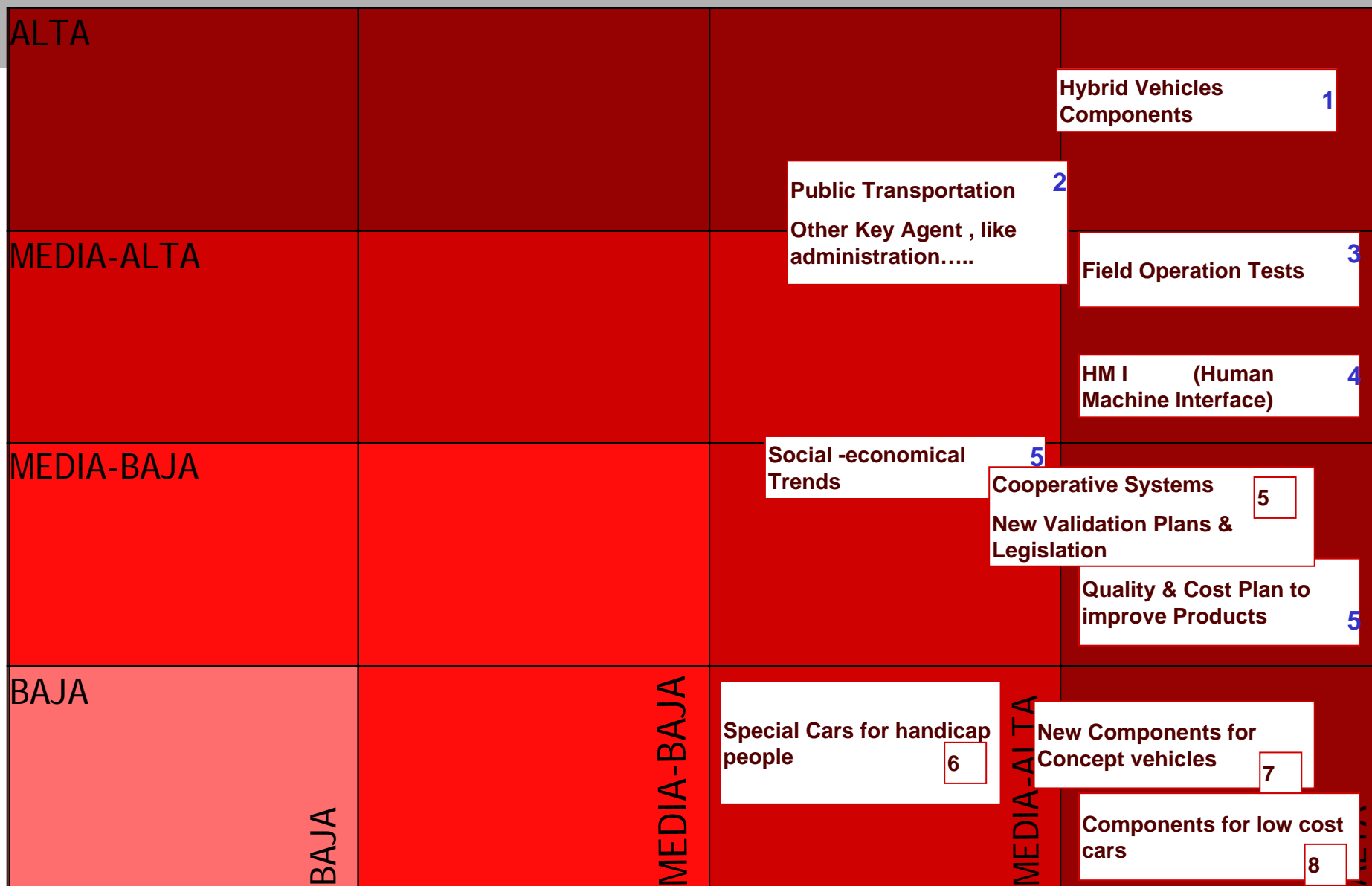
## GROUP 4. MOBILITY, TRANSPORT AND INFRASTRUCTURE

- To determine the implications caused and derived by the Automotive Sector .
- Relationship with other complementary sectors, (ej. Transport of heavy merchandise.).
- To prioritize the Automotive performances and determine the Key Multi-sectorial technologies like ICT (Information and Communication Technologies).





## GROUP 4. MOBILITY, TRANSPORT AND INFRAESTRUCTURE





### TOP 5 PRIORITIES:

- Deployment “Mapa de Referencias Tecnológicas” in English as search methodology for all technical topics components related (Technologies/Product and process, specifications, innovations,...).
- Define specific training programs to support Automotive Industry.
- Consolidate automotive clusters to promote the suppliers in R&D Programs.  
(CENIT, FPVII )
- Set Supplier´s Centres of Excellence in specifics technologies and/or Niche Products.
- Support long term R&D policies by reinforcing key employees career development in suppliers and technological centres.