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## R&D in Software Intensive Systems in Spain



## R&D in SiS in Spain

ITEA2 Symposium Rotterdam, 21 & 22 October 2008



Presentation structure:

- National R+D+I Plan
- Spanish participation in ITEA/ITEA2
- PROMETEO (Spanish Technology Platform on Embedded Technologies)

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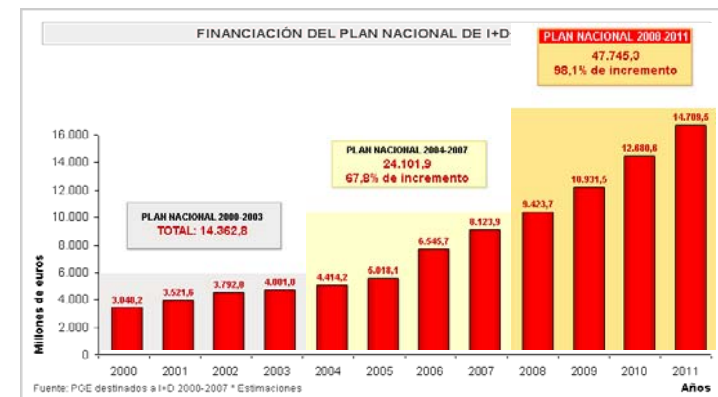
- National Plan to comply with objectives of *Lisbon Strategy*
- Promotion of R&D
- Indicators to achieve:
  - 2% GDP in R&D by 2010

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## ➤ *Foreseen evolution of national R&D funding:*



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*National Plan is organised in lines and strategic actions*

### *LINES*

- Human resources
- *R&D&i projects*
- Institutional strengthening
- Scientifics and technological infrastructure
- Use of knowledge and technological transfer
- Networking and internationalization of the system

### *HORIZONTAL STRATEGIC ACTIONS*

- Health
- Biotechnology
- Energy and climate change
- Nanoscience and nanotechnology

- *Telecommunications and Information Society (T&IS)*

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### *Telecommunications and Information Society (T&IS) Strategic Action*

#### Aim

to promote development & use of technologies, services & contents of the Information Society

It covers a wide range of fields related to ICT, with focus in some areas like:

*activities aligned with ITEA2*: embedded and distributed systems, open source, intelligent systems and more.

7 subprogrammes

...

2) *Subprogramme Avanza R&D: 110.000 k€ grants plus 246.000 k€ in loans budget*

...

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### Subprogramme Avanza R&D

- annual call
- through competitive selection
- [ individual | in cooperation ] multiannual projects, partly done in application year
- funds with grants and/or loans

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### *Avanza R&D fund the following EUREKA ITEA2 projects:*

- Industrial Research Projects
- Experimental Development Projects

And supports the Spanish PROMETEO Technology Platform

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Eligible organizations under Avanza R&D for international projects:

- National consortium leader: An **enterprise** (SME or large). Microenterprises must cooperate.
- “Non Profit R&D Private Centres” and “Groups or Sectorial Associations”
- “Public R&D Centres”, “Private Academics R&D Centres (**Universities**)” and “Technological Centres” as partners of a national leader

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Maximum level of funding:

- *Industrial research (up to 50%, 60% for medium enterprises, 70% small enterprises)*
- *Experimental Development (25%, 35%, 45%)*
- These rates *can increase 15%* in certain cases:
  - *International projects*

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# SPANISH PARTICIPATION IN ITEA/ITEA2

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**ITEA** was the first concerted strategic R&D initiative addressing the *SW* challenge, mounted by European industry.

**ITEA 2**, the follow-up to the successful ITEA programme, is a strategic pan-European programme for advanced pre-competitive R&D in software for Software-intensive Systems and Services (SiS).

**SIS**: in which software represents a significant segment in terms of system functionality, system development cost & risk and system development time.



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### ITEA 2

**-Goal:** sustain the **European Leadership** in the area of SiS

**-Ambition:** to mobilise a total of 20,000 person-years over the full eight-year period of the programme, requiring a **significant increase in investment**

Vision and Strategy:  
According Blue ITEA2 Book



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### What is the Spanish position about ITEA2 ?

- Interest in R&D in SiS (see funding evolution)
- Spanish Government has strong interest in Eureka Clusters, in order to maximize benefits obtained thanks to strategic alliances
- Excellent opportunity as a Cluster of SiS, where the interest is very high, and an important number of enterprises needs to be involved.

#### Result:

- High involvement of Spanish government from the beginning
- Active participation during the different calls

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### Active Spanish ITEA/2 participation during the different calls

- **2** ITEA 2 Board members:
  - Telvent
  - Telefónica
- **122** Spanish partners
- **1** specific technology platform = PROMETEO

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Active Spanish ITEA/2 participation during the different calls.  
This year leads Spain in PYs in PO phase:



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Active Spanish ITEA/2 participation during the different call:

ITEA Call 7) Spanish participation in 15/18 projects  
94% labelled & applied projects were funded

ITEA Call 8) Spanish participation in 11/12 projects  
100% labelled & applied projects were funded

ITEA2 Call 1) Spanish participation in 14/17 projects  
100% labelled & applied projects were funded

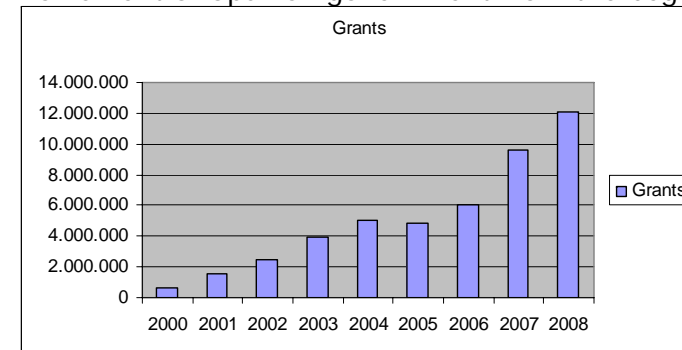
ITEA2 Call 2) Spanish participation in 13/18 projects  
100% labelled & applied projects were funded

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Interest in R&D in SiS = Spanish funding evolution  
High involvement of Spanish government from the beginning



20 times from 2000 to 2008: Total=50 Million Euros

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- **PROMETEO Platform:**

# PROMETEO

Plataforma Tecnológica Española de  
Sistemas con Inteligencia Integrada



Systems with Embedded Intelligence

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- **PROMETEO is the Spanish Technology Platform for Systems with Embedded Intelligence**
- Provides a framework for stakeholders, led by industry, to **define research and development priorities, timeframes and action plans**
- Supported by the Spanish Ministry of Industry, Tourism and Trade (MITyC)
- 100+ companies and agents in the network
- Covers the **whole economic value chain** by mobilising **industry, academia and technology centres**
- Active in many international associations

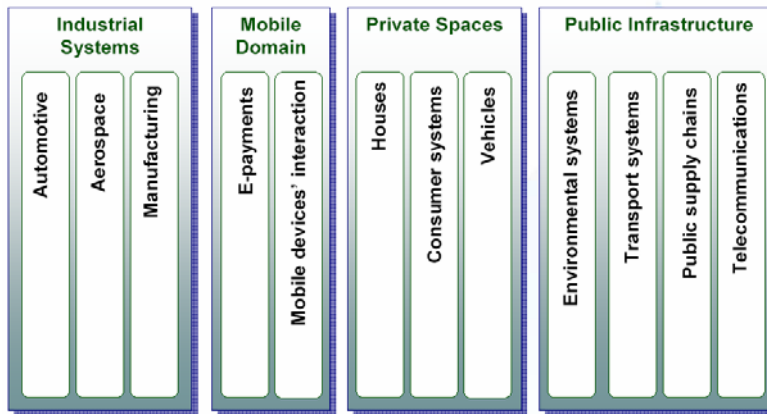


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## PROMETEO application contexts



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## PROMETEO Executive Committee



**TELVENT**



Web: [www.prometeo-office.org](http://www.prometeo-office.org)

# PROMETEO: Enterprises



# PROMETEO: Enterprises



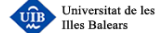
# PROMETEO: Research & Technology Centers

Dirección General para el Desarrollo de la Sociedad de la Información



# Universidades

MINISTERIO DE INDUSTRIA, TURISMO Y COMERCIO  
Dirección General para el Desarrollo de la Sociedad de la Información



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### Conclusions:

- Great Spanish interest and contribution to ITEA/ITEA2 through the national plan
- Great spanish partners involvement
- Technology platform PROMETEO-ARTEMIS

## See you in 2009 ITEA2 Symposium

