

PORTUGAL 2007

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## FURTHER INFORMATION & CONTACT

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### WEB SITES

High Level Conference on Nanotechnologies

<http://www.fct.mctes.pt/hlc>

Portuguese Presidency of the European Union

<http://www.ue2007.pt>

Nanotechnologies

[http://ec.europa.eu/nanotechnology/index\\_en.html](http://ec.europa.eu/nanotechnology/index_en.html)

DG Information Society and Media

[http://ec.europa.eu/dgs/information\\_society](http://ec.europa.eu/dgs/information_society)

DG Research

<http://ec.europa.eu/research>

ENIAC

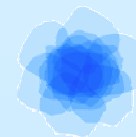
<http://www.eniac.eu>

ARTEMIS

<http://www.artemis-office.org>

# High Level Conference on Nanotechnologies

**Braga (Portugal)**  
**20<sup>th</sup>-21<sup>st</sup> November 2007**



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**European Commission**

Directorate-General Information Society and  
Media & Directorate-General Research

## Nanotechnologies

for jobs and growth in a European knowledge-based society

Nanotechnologies, nanoelectronics and nanomedicine are considered strategic by the European Commission and are key pillars for the i2010 initiative. Investment in research and innovation in these areas is crucial to contribute to the creation of jobs and economic growth in Europe in the short, medium and long term, and plays a major role for different policies related to Health, Transport, Energy, Food, Environment, and quality of life.

The High Level Conference on Nanotechnologies is an initiative of the Portuguese Presidency and its objective is to implement the revised Lisbon strategy through two different aspects:

- The creation of the **Iberian International Nanotechnology Laboratory (INL)**, located in Braga
- The endorsement of the **Joint Technology Initiatives (JTI)** on Nanoelectronics **ENIAC** and Embedded Systems **ARTEMIS**

The **Conference** will offer a unique opportunity to bring together policy makers, scientists and leading industrial players to discuss the future of this fascinating area, which will have a high socio-economic impact for Europe.

## Structure

The **Conference** will comprise a series of parallel sessions on high potential application areas for nanotechnologies and core activities of the Iberian International Nanotechnology Laboratory as well as plenary sessions addressing key issues in innovation and research in Europe.

### 20th November

#### Opening

The opening session, chaired by Mr. Sentieiro, President of FCT, will include the speeches from the Portuguese Presidency, Mr. Silva Rodríguez-Director General of DG RTD, Mr. Zangl-Deputy Director General of DG INFSO, Mr. Péro, Head of Unit Research Infrastructure DG RTD and Mr. Vigier, Deputy Head of Unit Innovation Policy DG Enterprise.

#### Parallel session 1: Nanoelectronics

This session will give an insight into nanoelectronics, covering its current situation (including results of ICT Call 1), market and business challenges, research and science future directions, including the role of the JTI.

#### Parallel session 2: Computing in the nano-era

The decreasing nanometer geometries of integrated circuits result to a constant increase of the transistors available on a single chip. The session will discuss the multiple Computing challenges both from the academic and the industrial perspective. The session will also present the results of the recent FP7 Call in Computing Systems and discuss the future prospects for this area of research.

#### Parallel session 3: Nanomedicine

The wide range of opportunities and challenges for nanotechnologies applied to health will be covered in detail in this working session.

#### Plenary 1: The implementation of the policies

Successful cases of Research Institutes in Europe will be presented in this plenary session.

#### Plenary 2: European Technology Platforms

This plenary session will address the European Technology Platforms most relevant to Nanotech and their application.

### 21st November

#### Plenary 3: The political initiative

This plenary session will address the political initiatives launched at European level to develop nanotechnologies in Europe.

Keynote speeches will be given by Ms. Viviane Reding, Commissioner of Information Society and Media, Mr. Janek Potočník, Commissioner of Science and Research, Mr. Jose Mariano Gago, Minister of Science, Technology and Higher Education of Portugal, Ms. Mercedes Cabrera Calvo-Sotelo, Minister of Education and Science of Spain, Mr. Wolfgang Ziebart, JTI on Nanoelectronics ENIAC, and Mr. Yrjo Neuvo, JTI on Embedded Systems ARTEMIS.

#### Parallel session 4: Food, environment and energy

This session will explore the possibilities of nanotechnologies in the field of environment, energy and food. Their impact on the consumer will also be considered.

#### Parallel session 5: Organic Electronics and Micro & Nanosystems

The evolution of electronics from micro-nanosystems to smart systems and organic electronics will be broadly covered within this working session.

#### Parallel session 6: Nano manufacturing (including textile)

The focus of this session will be on the variety of applications of nanotechnologies, ranging from automotive to textiles or smart materials.

#### Final Plenary and Adjourn

This final plenary session, chaired by Mr. Magalhães, President of Knowledge Society Agency (UMIC), Portugal, will present the results of the different parallel working sessions.