

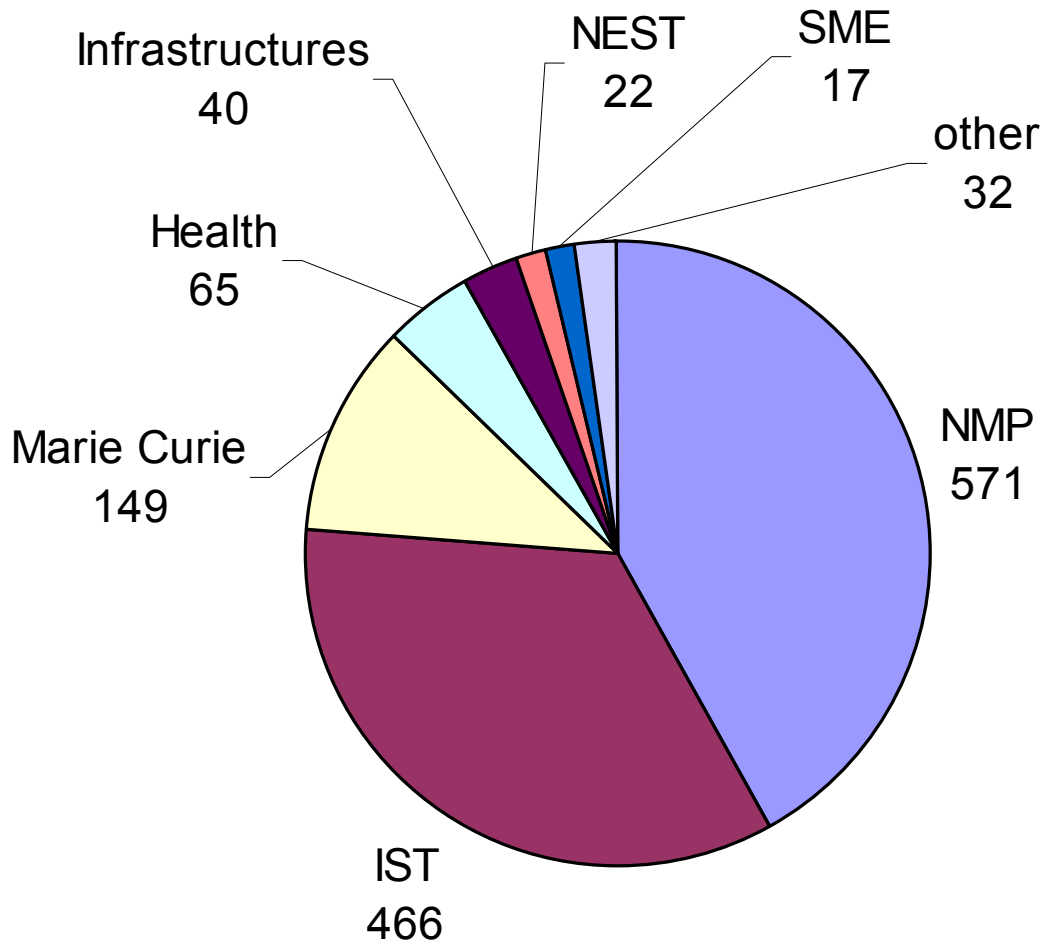
# **List of the “bullet points” in the first FP7 calls for proposals of direct relevance to nanotechnology**

Disclaimer: Note that this compilation is not legally binding and does not represent any commitment on behalf of the European Commission



# Background: Nanotechnology R&D in FP6

More than 1.3 billion€ in more than 550 projects



EC funding by FP6 programme, M€

# Funding for Nanotechnology R&D in FP7

More than 50 activities in the calls opened in 2007 are *directly* relevant

Many more activities are indirectly relevant (e.g. in Health)

100-400M€ estimated in 2007

Doubling of the FP6 funding expected over duration of FP7

## Nanoscience



<a href="#"><u>P-2007-1.1-1</u></a>	Nano-scale mechanisms of bio/non-bio interactions
<a href="#"><u>P-2007-1.1-2</u></a>	Self-assembling and self-organisation
<a href="#"><u>P-2007-1.1-3</u></a>	Support to ICPC researchers in nanotechnology and creation of a free open electronic archive of nanosciences and nanotechnologies scientific and technical publications
<a href="#"><u>P-2007-1.1-4</u></a>	Development of methodology, collection and elaboration of scientific-technical and socio-economic data and studies on nanosciences and nanotechnologies, including risk assessment, and establishment of an observatory
<a href="#"><u>P-2007-1.1-5</u></a> (ERANET)	ERANET Plus in nanosciences

# Technology development

<u>P-2007-1.2-1</u> CP	<b>Pilot lines to study, develop and up-scale nanotechnology-based processes from laboratory</b>
<u>P-2007-1.2-2</u> targeted CP	<b>Equipment and methods for nanotechnology</b>
<u>P-2007-1.2-3</u>	<b>Analysis of the ethical, regulatory, social and economic environment of nanomedicine</b>
<u>P-2007-1.2-4</u>	<b>Coordination in nanometrology</b>
<u>P-2007-1.2-5</u>	<b>Examining capacity building in nanobiotechnology</b>
<u>P-2007-3.4-1</u> targeted CP	<b>Rapid Manufacturing Concepts for Small Series Industrial Production</b>
<u>P-2007-3.5-1</u> CP	<b>Processes and Equipment for High Quality Industrial Production of 3-Dimensional Nanosurfaces</b>
<u>P-2007-3.5-2</u> CP	<b>Production Technologies and equipment for Micro-Manufacturing</b>
<u>P-2007-4.0-2</u> targeted CP	<b>Application of new materials including bio-based fibres in high-added value textile products</b>

# Impact assessment and societal issues



<a href="#"><u>P-2007-1.3-1</u></a> CP	Specific, easy-to-use portable devices for measurement and analysis
<a href="#"><u>P-2007-1.3-2</u></a>	Risk assessment of engineered nanoparticles on health and the environment
<a href="#"><u>P-2007-1.3-3</u></a>	Scientific review on the data and studies on the potential impact on health, safety and the environment of engineered nanoparticles
<a href="#"><u>P-2007-1.3-4</u></a>	Creation of a critical and commented database on the health, safety and environmental impact of nanoparticles
<a href="#"><u>P-2007-1.3-5</u></a>	Coordination in studying the environmental, safety and health impact of engineered nanoparticles and nanotechnology based materials and products
<a href="#"><u>ALTH-2007-1.3-4</u></a>	Alternative testing strategies for the assessment of the toxicological profile of nanoparticles used in medical diagnostics
<a href="#"><u>P-2007-1.2.3.2-CT</u></a>	Science in Society: Nanoscience and Nanotechnology

# nanomaterials

<a href="#"><u>P-2007-2.1.1</u></a> CP	<b>Nanostructured polymer-matrix composites</b>
<a href="#"><u>P-2007-2.1.2</u></a>	<b>Nanostructured coatings and thin films</b>
<a href="#"><u>P-2007-2.1.3</u></a>	<b>Characterisation of nanostructured materials</b>
<a href="#"><u>P-2007-2.2-1</u></a> CP	<b>Organic materials for electronics and photonics</b>
<a href="#"><u>P-2007-2.2-2</u></a>	<b>Nanostructured materials with tailored magnetic properties</b>
<a href="#"><u>P-2007-2.2-3</u></a>	<b>Advanced material architectures for energy conversion</b>
<a href="#"><u>P-2007-2.3.-1</u></a> CP	<b>Highly porous bioactive scaffolds controlling angiogenesis for tissue engineering</b>
<a href="#"><u>P-2007-2.4-2</u></a>	<b>Nanostructured catalysts with tailor-made functional surfaces</b>
<a href="#"><u>P-2007-2.4-3</u></a>	<b>Renewable materials for functional packaging applications</b>
<a href="#"><u>P-2007-2.5-2</u></a>	<b>Modelling of microstructural evolution under work conditions and in materials processing</b>

# nanomaterials –cont'd

<a href="#"><u>ENERGY-2007.1.2.4</u></a>	<b>Novel nanostructured materials for hydrogen storage</b>
<a href="#"><u>ENERGY-2007.1.1.1</u></a>	<b>Basic research for materials and processes for Polymer Electrolyte Membrane Fuel Cells (PEMFC)</b>
<a href="#"><u>ENERGY-2007.1.1.2</u></a>	<b>Basic research on materials and processes for High Temperature Fuel Cells (SOFC &amp; MCFC)</b>
<a href="#"><u>ENERGY-2007.1.2.1</u></a>	<b>New materials and processes for advanced electrolyzers</b>
<a href="#"><u>ENERGY-2007.1.2.2</u></a>	<b>New materials and processes for advanced multi-fuel processors</b>
<a href="#"><u>ENERGY-2007.1.1.2</u></a> CSA	<b>Aerostructures</b>

# nanoelectronics

<a href="#"><u>ENERGY-2007.3.1</u></a> NoE, CSA	<b>Next generation nanoelectronics components and electronics integration</b>
<a href="#"><u>ENERGY-2007.8.1</u></a> CSA (CA only)	<b>Nano-scale ICT devices and systems</b>

# nanomedicine



<b><u>FP7-2007-4.0-4</u></b> e CP	<b>Substantial innovation in the European medical industry: development of nanotechnology-based systems for in-vivo diagnosis and therapy</b> <i>(in coordination with topics HEALTH-2007-2.4.1-7 and HEALTH-2007-1.2.3)</i>
<b><u>HEALTH-2007-2.4.1-7</u></b>	<b>Improving targeted drug delivery to cancer cells for cancer therapeutics other than gene therapy</b>
<b><u>HEALTH-2007-1.2.3</u></b> e CP	<b>Novel targeted imaging probes for early in vivo diagnosis and/or evaluation of response to therapy</b>
<b>HEALTH-2007-1.4.4</b> e CP 2 <sup>nd</sup> call	<b>Development of emerging gene therapy tools and technologies for clinical application</b>
<b><u>FP7-2007-5.1</u></b> e CP, CSA	<b>Personal Health Systems for Monitoring and Point-of-Care diagnostics</b>

Many more activities in the [Health theme](#) are relevant to nanomedicine, e.g. imaging, stem cells and translating research for human health

# Other Important Topics

<p><b>-2007.3.6</b> NoE, CSA 2<sup>nd</sup> call</p>	<p><b>Micro/nanosystems</b></p>
<p><b>-2007.3.5</b> NoE, CSA 2<sup>nd</sup> call</p>	<p><b>Photonic components and subsystems</b></p>
<p><b>-2007-C</b> CSA (CA only)</p>	<p><b>FET (Future and Emerging Technologies) Open</b> <i>(Open call for bottom-up activities)</i></p>
<p><b>T-2007.6.1.4</b> CSA</p>	<p><b>Life-cycle</b> <b>[of air vehicles, including increased use of nanotechnologies]</b></p>
<p><b><u>BE-2007-2-3-04</u></b></p>	<p><b>Nano-devices for quality assurance, food safety and product proper</b></p>
<p><b><u>BE-2007-2-4-04</u></b></p>	<p><b>Innovative and safe packaging</b></p>
<p><b><u>BE-2007-2-5-02</u></b></p>	<p><b>Converging technologies and their potential for the food area</b></p>

**Please consider also opportunities within  
ST actions (funding for co-ordination activities)  
<http://www.cost.esf.org/>**

# Human Resources



<a href="#"><u>FP6-2007-1-1-ITN</u></a>	<b>Marie Curie Initial Training Networks</b> <i>(all research areas)</i>
<a href="#"><u>FP6-2007-5-2-Awards</u></a>	<b>Marie Curie Awards</b> <i>(all research areas)</i>

Please consider also the opportunities in [educational programmes](http://ec.europa.eu/education/programmes/programmes_en.html) managed by DG EAC  
[http://ec.europa.eu/education/programmes/programmes\\_en.html](http://ec.europa.eu/education/programmes/programmes_en.html)

# Grants – European Research Council



<a href="#"><u>FP6-2007-StG</u></a>	<b>ERC Starting Independent Researcher Grants</b> <i>(all research areas)</i>
Selected in 2 <sup>nd</sup> call	<b>ERC Advanced Investigator Grants</b> <i>(all research areas)</i>

# Research Infrastructures & SMEs



<a href="#"><u>FP6-2007-2.2.1.27</u></a> Combination CP/CSA	<b>PRINS, Pan-European Research Infrastructures for Nano-structures</b> <i>(from 2006 ESFRI Roadmap)</i>
<a href="#"><u>FP6-SME-2007-1</u></a>	<b>Research for the benefit of SMEs</b>

# References



[http://cordis.europa.eu/nanotechnology/src/eu\\_funding.htm](http://cordis.europa.eu/nanotechnology/src/eu_funding.htm)

**FP7:** [http://cordis.europa.eu/fp7/home\\_en.html](http://cordis.europa.eu/fp7/home_en.html)

**FP7 calls:** <http://cordis.europa.eu/fp7/dc/index.cfm>

**Nanotechnology homepage:**

<http://cordis.europa.eu/nanotechnology/>

**Life Sciences and Nanotechnologies:**

**An Action Plan for Europe 2005-2009**

<http://cordis.europa.eu/nanotechnology/actionplan.htm>

**Additional information**

**nanotechnology:** <http://nanoforum.org>

# The European Policy in Nanotechnology *integrated, safe and responsible*

<http://cordis.europa.eu.int/nanotechnology/actionplan.htm>

