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The European Commission's approach to Nanotechnology development

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EC Integrated Strategy for Nanotechnology:

- **Research**
- **Infrastructures**
- **Human Resources**
- **Industrial Innovation**
- **Societal Issues**
 - Outreach, Ethics, Code of Conduct
- **Safety & Regulation**
- **International Cooperation**
 - In both Research and Policy

Communications on Strategy, Action Plan & Implementation:

**COM(2004)338
of 12/05/04**

**COM(2005)243
of 07/06/05**

**COM(2007)505
of 06/09/07**





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Implementation:

- **N&N in FP6: ~1.4 Billion € in 550 projects (not only from NMP)**
 - **EC accounts for ~1/3 of public funding in EU**
 - **600 M€ in 2007, first year of FP7**
 - **Similar amount expected in 2008**
- **Support for Infrastructures and Human Resources in 'nano'**
- **Increasing industrial participation & patents**
 - **Funded R&D: Topics moving from fundamental science to industrial applications and systems**





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Implementation –pt II:

- **Staying in tune with society: Information and dialogue**
 - “Code of Conduct for Responsible N&N Research”, Feb 08
- **Work on safety and regulatory issues (several DGs)**
 - Increasing investment in safety R&D
 - “Regulatory Review”, Jun 08
- **International cooperation –in research and policy, e.g.**
 - Coordinated call with Russia, 2009
 - International dialogue, OECD, ISO etc





Moving focus: Application-driven nano systems

Near-term (2009-2010) RTD focus

Nano-sciences

New knowledge of interactions of atoms, molecules and their aggregations with both natural and artificial entities.

Understanding or imitating the natural processes at nano-metric scale.

Nano-technology

Realisation of nano-structures, systems or materials.

Processes for nano-fabrication, surface functionalisation, thin layers, self-assembling properties.

Method and processes for measuring and characterisation.

Economic Impact

Target application sectors with high added value; support for (new) Lead Market initiatives

Policy impact

Nano Action Plan

Code of conduct

Framework Programme

International Cooperation

Commission policies



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The Role of the Observatory:

- **Perform dynamic assessments of nanotechnology development and use, covering levels of success and critical issues**
- **Cover technological, economic, safety ('EHS'), societal aspects**
- **Create user-friendly database with appropriate links**
- **Advise on opportunities and risks**





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EU Nanotechnology Information

- Commission Nanotechnology homepages (with FAQs):

ec.europa.eu/nanotechnology

cordis.europa.eu/nanotechnology

- CORDIS – Information on (NMP) Calls:

cordis.europa.eu/fp7/dc

- Industrial Technologies website:

ec.europa.eu/research/industrial_technologies/

