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The European Commitment to nano safety research

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The EU Approach: safe, integrated and responsible”

✓ Some important milestones

- ✓ Towards a European Strategy for Nanotechnology (2004)
- ✓ Nanotechnology Action Plan for Europe 2005-2009 (2005)
 - ✓ First Action Plan Implementation Report 2005-2007 (2007)
- ✓ Code of Conduct for Research (2008)
- ✓ Regulatory review Communication and Staff Working Document (June, 2008)



Research at EU level... at a glance

- EU FPs equal one third of Europe's public funding in N&N; largest single "funding agency" worldwide.
- In 2008, analysis indicated that EU is leading worldwide in funding specifically focused on nanomaterials' environmental, health and safety impacts.
- Funding increased considerably over the years, and there is the intention to continue funding specific topics in the future years.
- International cooperation is enhanced.
- Overall priorities for each FP and detailed priority setting in yearly work programmes.



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Some figures ...

FP5 Projects on safety of nanoparticles



~2.5M€

FP6 Projects on safety of nanoparticles



~25 M€

FP7 Projects on safety of nanoparticles



Only 1st year

~25 M€



RUNNING FP6 PROJECTS

- **ON SAFETY OF NANOPARTICLES:**
 - CELLNANOTOX
 - IMPART
 - NANOSH
 - NANOSAFE2
 - NANOCAP
 - DIPNA
 - NANOINTERACT
 - PARTICLE-RISK
 - SAPHIR
- **STANDARDISATION AND METROLOGY:**
 - NANO-STRAND
 - NANOTRANSPORT



Nanosciences and Nanotechnologies

Topic
N. Proj. - EU Fund.

Specific, easy-to-use portable devices for measurement and analysis - LA
1 – 10 M

Risk assessment of engineered nanoparticles– SM
3 – 9 M

Studies on the potential impact on EHS of nanoparticles – SSA
1 – 0.2 M

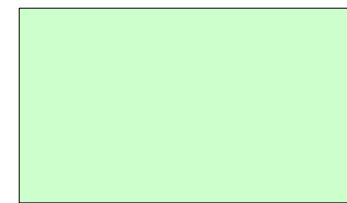
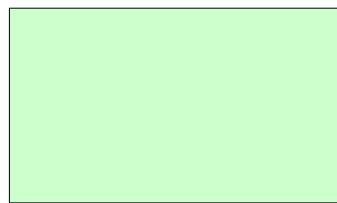
Critical database on the impact of nanoparticles – SSA
1 – 1.7 M

Coordination in EHS impact of nano materials - CA
1 – 2 M

3.3 Health & Environmental Impacts

Validation, adaptation and/or development of risk-assessment methodology for engineered nanoparticles - LA

Impact of engineered nanoparticles on health and the environment - SM



2007

2008

2009

2010



FP7 PROJECTS ON SAFETY OF NANOPARTICLES:

- **NanoImpactnet**
- **Nanommune**
- **NANOTEST**
- **ENRHES**



HEALTH-2007-1.3-4

Alternative testing strategies for the assessment
of the toxicological profile of nanoparticles
used in medical diagnostics

Other 4 projects are being negotiated!



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The NanoImpactNet *FP7-Coordination-Action*

Michael Riediker, Coordinator NanoImpactNet
Institute for Work and Health, Lausanne

Objectives and aims

Promote the **creation of a scientific basis** for:

- Safe and responsible development of materials and products
- Help define regulatory measures and legislation in Europe

Promote research and communication:

- Critical evaluation of methods, protocols and results
- Develop best practices to ensure studies are comparable
- Enhance scientific output through cross-talk and coordination

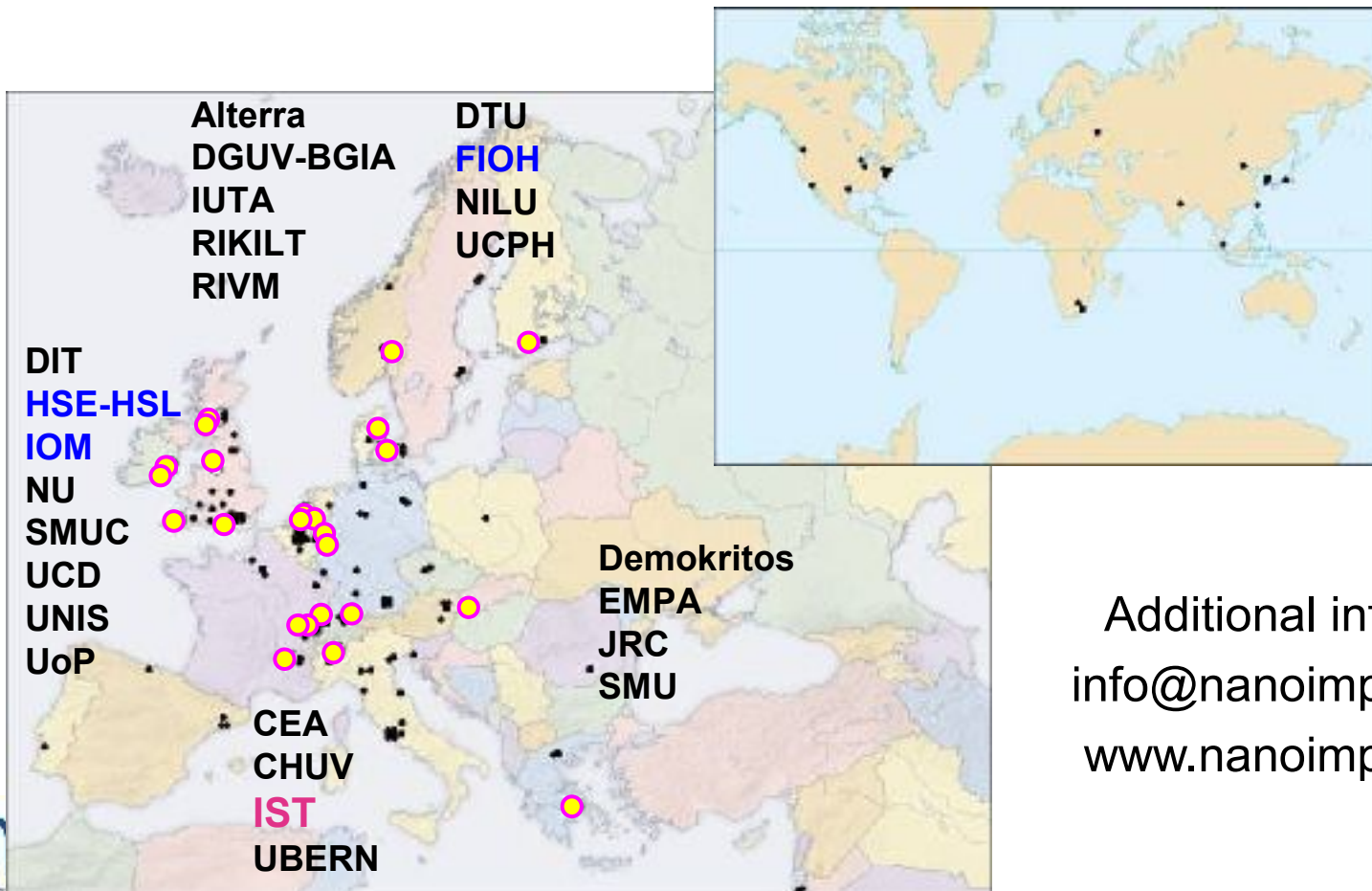
Open to **Researchers** & other **Stakeholders** (experts from industries, SMEs, governments, NGOs etc...)



Current status

Over 300 members from 28 countries worldwide

Funding by EC's FP7 with a 2 Mio € grant agreement until 2012



Additional information:
info@nanoimpactnet.eu
www.nanoimpactnet.eu

PUBLICATION

EU nanotechnology R&D

in the field of health and environmental impact of nanoparticles

information of 106 projects, 14 of them are from the FPs which give around 32 million € in grants. The others 92 projects are from the EU Members States which spend around 47 million € in grants. This makes a total of some 79 million €.

Available at

<ftp://ftp.cordis.europa.eu/pub/nanotechnology/docs/final-version.pdf>

EU workshop on research on the safety of nanomaterials Brussels, 17-18 April 2008

- 1. Presentation of FP6 & FP7 projects**
- 2. Presentation on research projects funded by some EU member states and associated countries.**
- 3. Review and discussion on the knowledge gaps: data generated and future priorities in this area?**

**Proceedings, presentations, agenda and
participants' list available at**

http://cordis.europa.eu/nanotechnology/src/publication_events.htm



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Information on Nanotechnology in EC

- **Commission Nanotechnologies homepage**

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

http://ec.europa.eu/nanotechnology/index_en.html

Additional information on nanotechnology:





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**Thank you for your
attention!**

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