



Work Package 5, Health, Safety and Environment

Liaison Report v2.0, December 2009

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Contents

1. Introduction	3
2. Methods	4
3. Liaison Results	5
I. <u>European Framework 6 & 7 supported projects</u>	
i. CELL NANOTOX	5
ii. DIPNA	5
iii. IMPART	5
iv. NANOINTERACT	6
v. PARTICLE-RISK	8
vi. NANOSH	9
vii. NANOSAFE2	10
viii. NANOTRANSPORT	12
ix. NANOCAP	14
x. SAPHIR	15
xi. NANOIMPACTNET	16
xii. NANOTEST	17
xiii. NANODEVICE	18
xiv. NANOMMUNE	18
xv. NanoReTox	21
xvi. NEURONANO	21
xvii. ENRHES	22
xviii. Framing Nano	23
xix. Nano Charm	25
xx. Nano2Life	26
xxi. CANAPE	27
xxii. NanoMed Round Table	27
II. <u>Governmental, Quasi-Governmental and National Programmes</u>	
i. OECD WPMN	29
ii. OECD WPN	31
iii. NATO	31
iv. NIOSH	33
v. DEFRA	33
vi. US National Nanotechnology Initiative	33
vii. French National Nanotechnology Program	35
viii. NanoNed	36
ix. Swiss Federal Office for the Environment	38
x. BMBF Germany	39
xi. BfR Germany	39
xii. HSE Horizon Scanning	39
xiii. The Foresight Institute	41
xiv. ICON / CBEN	41
III. <u>Other Observatories</u>	
i. IOM - SAFENANO	44
ii. CEA - OMNT	46
iii. RIVM - KIR nano	48
iv. NanoTRENDchart	50
v. PEN - NanoInventories	50
vi. NanoTrust	51

IV. <u>Other (including NGOs & European Technology Platforms).</u>	
i. Friends of the Earth	54
ii. Greenpeace	56
iii. Responsible Nano Forum	57
iv. Dr Hadwen Trust	58
v. NANOTOX	59
vi. European Technology Platform: Industry	59
vii. European Technology Platform: Nanomedicine	59

1. Introduction

ObservatoryNANO is a large scale project which aims to create a European observatory on Nanotechnology. Its aim is to present reliable, complete and responsible science based and economic expert analysis across technology sectors, establish dialogue with decision makers and others regarding the benefits and opportunities, balance against the barriers and risks, and allow them to take action to ensure that scientific and technological developments are realised as socio-economic benefits.

IOM leads Work Package Five (WP5) in this project: Health, Safety and Environmental impacts. Other partners in WP5 are CEA-OMNT, RIVM & EMPA.

The tasks under WP5 may be split into two main parts:

1. Identification of a number of organisations or groups to establish liaisons with, develop a plan of the most productive method by which to liaise with each, implement that liaison, review the outputs from these organisations, and summarise these outputs as annual reports.
2. Examine the scientific and technical outputs from the other parts of the observatory, assess whether there exist any health, safety or environment implications of these and summarise these as annual reports.

The second deliverable under WP5 is '*D5.1.2 - annual report on outputs of liaison organisations*'. This includes a summary of those organisations with whom we liaise, their specialisation, recent outputs and expected contributions to the area over the next 12 months. This summary document outlines those organisations contacted according to their derivation as follows:

- European Framework 6 & 7 supported projects
- Government & Quasi-Government Organisations
- Other Observatories
- Other (including NGOs & European Technology Platforms).

This liaison report has been produced for month 12 of the project. The month 24 report will include a more detailed analysis of the outputs from liaison organisations, and highlight key parameters such as strengths in research and gaps in knowledge. This is due for publication in mid 2010.

WP5 acknowledge that liaisons will continue grow and develop during the lifespan of ObservatoryNANO as projects are commenced and come to an end; our liaison plan will thus be updated to reflect this on an annual basis.

2. Methodology

Key organisations and projects working within the nanotechnology Environment, Health and Safety field (nanoEHS) were identified from within 4 major areas:

- European Framework 6 & 7 supported projects
- Government & Quasi-Government Organisations
- Other Observatories
- Other (including NGOs & European Technology Platforms).

Based on knowledge held by the WP5 organisations and on discussions with other stakeholders, 47* organisations considered to be contributing considerably to improving the knowledge base within nanoEHS were selected as representative of the field.

Those organisations selected were detailed in a [Liaison Plan](#) document published in February 2009. This document included a listing of those organisations with whom WP5 proposed to liaise, the information to be gathered from each, and a proposed plan for keeping this information up to date throughout the project's duration.

Requests for liaison were distributed electronically in summer 2009. These included an outline of the project, the liaison process, and highlighted benefits for liaison organisations gained from participation. The initial step of the liaison process required organisations to complete a short questionnaire, to ensure that accurate basic information about each organisation, its structure and involvement in nanoEHS research was field.

Liaison organisations were requested to complete and return their questionnaires by 30th October 2009. Following completion of the initial questionnaire liaison organisations will be contacted 6 monthly to request an update on their latest activities and outputs.

At the deadline for liaison questionnaire returns, of the 49 organisations contacted;

- 27 submitted a full response by the deadline for questionnaire return,
- 6 withdrew, and
- 16 either expressed interest but missed the deadline for submission of data or were pending additional information at the deadline.

Those organisations who withdrew from the process primarily did so because their project was either coming to an end, or they felt that they were not sufficiently expert in the field to contribute. They will not be included in further reports but are listed within this one as an official record of their inclusion.

The next liaison report is due in April 2010 at month 24 of the project. For this report, liaison organisations included will be re-assessed and additional organisations may be approached as appropriate, for example new and emerging FP7 projects, multinational infrastructure initiatives etc. This report will also include a detailed analysis of the outputs from liaison organisations, and highlight key parameters such as strengths in research and gaps in knowledge, in order to increase the value of the information gathered to stakeholder groups across the nano EHS field.

*Two additional organisations were added subsequent to publication of this plan. The final number of organisations approached was 49.

3. Liaison Results

I. European Framework - supported projects

Projects of relevance were identified from both within FP6 and FP7, the lead scientist contacted for each. The following chapter outlines the feedback received from each organisation on both its primary goals and aims for the coming months.

CELLNANOTOX

Contact: Dr Rafi Korenstein
Website: <http://www.fp6-cellnanotox.net/index.html>
WP5 liaison partner: IOM

Invitation to liaise distributed, no response received from contact point within time allocated for data collection.

DIPNA

Contact: Dr Antonietta Gatti
Website: <http://www.dipna.eu>
WP5 liaison partner: RIVM

Invitation to liaise distributed - no response from contact point prior to deadline. Liaison will be re-appraised for 2010.

IMPART

Contact: Dr Karl Hoehener
Website: http://www.impart-nanotox.org/impart_summary.html
WP5 liaison partner: IOM

This project completed in 2008: website and associated database are still active. Final reports are available and will be held on record for reference as and when necessary.

NANOINTERACT	
Organisation Outline	
Name	NANOINTERACT
Primary Aim	To develop a toolkit of approaches to understand how nanoparticles interact with living systems.
Contact Person/s	Prof. Kenneth Dawson / Dr. Iseult Lynch
Web Address	http://www.nanointeract.net/
Organisation Type	International Project & Network
WP5 Liaison Partner	RIVM
Organisation Structure	International Network & Project
Professional Background of members	Elected experts - Experts are located/work externally
Research Areas	Life sciences: Risk Assessment Human Toxicology Ecotoxicology Chemistry Physical Sciences & Computation
How members/experts contribute their input	Written Expertise; In workshops; Conduction of their own research within the organization
How Organisation is financed	Public money from government; Support from industry
Topics the organization focuses on	Research REACH Human health Environmental health Risk assessment Regulations Test guidelines
Stakeholder groups the organization provides information to	Politicians, Member States NGOs Industry Research Organizations Universities General public
How the information the organisation provides/work with is collected	Own research Stakeholder Dialogues Expert Workshops
How results/outputs are communicated	Databases Publications on website Publications in journals or books
Materials and tests undertaken	
Nanomaterials used	SWCNTs Silver Gold Titanium dioxide Aluminium oxide Cerium oxide Silicon dioxide Polystyrene

<p>Tests used and endpoints studied</p>	<p>Characterization / physicochemical properties:</p> <ul style="list-style-type: none"> - Size and size distribution (DLS, NanoSight, TEM, Spinning Disk Centrifuge), - Surface charge (zeta potential) in a range of biological media <p>Human health (in vitro / in vivo):</p> <ul style="list-style-type: none"> - Short-term toxicity - Long-term toxicity In Vitro: Uptake, biodistribution, cell cycle effects etc. - Proteomics / transcriptomics / functional impacts <p>Environmental health (in vitro / in vivo):</p> <ul style="list-style-type: none"> - Bioavailability: Effects of natural dispersants - Bioconcentration / Bioaccumulation: Effects of natural dispersants - Short-term toxicity: Daphnia, algae, plants - Long-term toxicity: Daphnia, algae, plants <p>Other:</p> <ul style="list-style-type: none"> - High content screening for functional impacts, - Quantitative evaluation of protein corona & dynamics
<p>Outputs</p>	
<p>latest reports or other outputs of the organization</p>	<p>Lynch, I, Salvati, A, Dawson, KA. Protein-nanoparticle interactions: What does the cell see? <i>Nat Nanotechnol.</i>, 2009, 4, 546-547.</p> <p>Linkov, I., Steevens, J., Adlakha-Hutcheon, G., Bennett, E., Chappell, M., Colvin, V., Davis, J.M., Davis, T., Elder, A., Foss Hansen, S., Hakkinen, P.B., Hussain, S.M., Karkan, D., Korenstein, R., Lynch, I., Metcalfe, C., Ramadan, A.B., Satterstrom, F.K. Emerging methods and tools for environmental risk assessment, decision-making, and policy for nanomaterials: summary of NATO Advanced Research Workshop. <i>J Nanopart Res.</i> 2009, 11, 513-527</p> <p>Park, M.V., Annema, W., Salvati, A., Lesniak, A., Elsaesser, A., Barnes, C., McKerr, G., Howard, C.V., Lynch, I., Dawson, K.A., Piersma, A.H., de Jong, W.H. In vitro developmental toxicity test detects inhibition of stem cell differentiation by silica nanoparticles. <i>Toxicol Appl Pharmacol.</i> 2009, 240, 108-116.</p> <p>Van Hoecke, K, Quik, J.T.K., Mankiewicz-Boczek, J, De Schamphelaere, K.A.C., Elsaesser, A, Van Der Meer, P, Barnes, C, McKerr, G, Howard, CV, Van de Meent, D, Rydzynski, K, Dawson, KA, Salvati, A, Lesniak, A, Lynch, I, Silversmit, G, De Samber, B, Laszlo, V, Janssen, CR. Fate and Effects of CeO₂ Nanoparticles in Aquatic Ecotoxicity Tests, <i>Environ. Sci. Technol.</i> 2009, 43, 4537-4546.</p> <p>Dawson KA, Salvati A, Lynch I. Nanotoxicology: nanoparticles reconstruct lipids. <i>Nat Nanotechnol.</i> 2009 4, 84-85.</p> <p>Lundqvist, M., Stigler, J., Cedervall, T., Elia, G., Lynch I., Dawson K. Nanoparticle Size and Surface Properties determine the Protein Corona with possible implications for Biological Impacts. <i>PNAS</i>, 105, 14265-14270.</p> <p>Barnes, C.A., Elsaesser, A., Arkusz, J., Smok, A., Palus, J., Lesniak, A., Salvati, A., Hanrahan, J.P., de Jong, W.H., Dziubałtowska, E., Stępnik, M., Rydzynski, K., McKerr, G., Lynch, I., Dawson, K.A.,</p>

	<p>Howard, C.V. Reproducible Comet Assay of amorphous silica nanoparticles detects no genotoxicity. <i>Nano Letters</i>, 2008, 8, 3069-3074.</p> <p>Lynch, I., Dawson K.A. Protein-nanoparticle interactions, <i>Nano Today</i>, 2008, 3, 40-47.</p> <p>Cedervall T, Lynch I, Lindman S, Berggård T, Thulin E, Nilsson, H, Linse S, Dawson KA. Understanding the nanoparticle protein corona using methods to quantify exchange rates and affinities of proteins for nanoparticles, <i>PNAS</i>, 2007, 104, 2050-2055.</p> <p>Cedervall T, Lynch I, Foy M, Berggård T, Donnelly SC, Cagney G, Linse S, Dawson KA, Detailed Identification of Plasma Proteins Adsorbed on Copolymer Nanoparticles, <i>Angew. Chem. Int. Ed.</i> 2007, 46, 5754 -5756.</p> <p>Linse S, Cabaleiro-Lago C, Xue W-F, Lynch I, Lindman S, Thulin E, Radford SE, Dawson KA, Nucleation of protein fibrillation by nanoparticles, <i>PNAS</i>, 2007, 104, 8691-8696.</p>
Activities to be started in the coming year(s) and when results are expected	Project is due to end on 31 st December 2009, but the website will continue. Co-ordinator and partners will also continue to liaise with ObservatoryNANO.
Additional comments	The NeuroNano FP7 project commenced in early 2009 and will run for 36 months, investigating the potential impacts of nanoparticles on the brain.

PARTICLE-RISK	
Organisation Outline	
Name	Particle-Risk
Primary Aim	Risk Assessment of Engineered Nanoparticles
Contact Person/s	Dr Lang Tran
Web Address	http://www.iom-world.org/particlerisk
Organisation Type	International Project
WP5 Liaison Partner	IOM
Organisation Structure	The organization involves only salaried staff
Professional Background of members	Experts are located/work externally
Research Areas	Life sciences: Risk Assessment Human Toxicology Ecotoxicology Chemistry
How members/experts contribute their input	Conduction of their own research within the organization
How Organisation is financed	Public money from government

Topics the organization focuses on	Research Risk Assessment
Stakeholder groups the organization provides information to	NGOs Industry Research Organizations Universities
How the information the organisation provides/work with is collected	Conduction of novel/own research
How results/outputs are communicated	Publications in journals or books
Materials and tests undertaken	
Nanomaterials used	SWCNTs Carbon black Titanium dioxide Fullerenes Gold
Tests used and endpoints studied	Characterization / physicochemical properties Human health (in vitro / in vivo):
Outputs	
latest reports or other outputs of the organization	Final report to European Commission; http://www.iom-world.org/research/particle_risk.php ; Published papers in peer review journals
activities to be started in the coming year(s) and when results are expected	Particle_Risk is now at termination, its successor the FP7 project ENPRA commenced on the 1 st May 2009. www.enpra.eu
Additional comments	none

NANOSH

Contact Person: Kai Savolainen
Website: <http://www.ttl.fi/Internet/partner/Nanosh/>
WP5 Liaison Point: RIVM

Invitation to liaise distributed - no response from contact point prior to deadline. Liaison will be re-appraised for 2010.

NANOSAFE2	
Organisation Outline	
Name	NANOSAFE2
Primary Aim	Integrated project : safe production and use of nanomaterials
Contact Person/s	Frédéric Schuster & Daniel Bloch
Web Address	www.nanosafe.org
Organisation Type	International Project
WP5 Liaison Partner	CEA
Organisation Structure	Constructed from Selected partners
Professional Background of members	Experts are located/work externally
Research Areas	Life Sciences: Risk Assessment Human Toxicology Ecotoxicology Chemistry Aerosol physics Social Sciences
How members/experts contribute their input	Written Expertise In workshops Conduction of their own research within the organization Reviews of current research
How Organisation is financed	Public money from government Funding from involved partners
Topics the organization focuses on	Research Development Occupational safety Environmental remediation, drinking water purification Human health Risk assessment
Stakeholder groups the organization provides information to	Politicians, Member States NGOs Industry Research Organizations Universities General public Trade Unions
How the information the organisation provides/work with is collected	Own research
How results/outputs are communicated	Publications on website Publications in journals or books
Materials and tests undertaken	
Nanomaterials used	SWCNTs MWCNTs Carbon black Titanium dioxide Aluminium oxide Silicon dioxide Other Metals

Tests used and endpoints studied	Characterization / physicochemical properties: Human health (in vitro / in vivo): <ul style="list-style-type: none"> - Exposure - In Vitro
Outputs	
latest reports or other outputs of the organization	<p>1. Dissemination Reports</p> <p>DR-1: Are conventional protective devices such as fibrous filter media, respirator cartridges, protective clothing and gloves also efficient for nanoaerosols? http://www.nanosafe.org/home/liblocal/docs/Dissemination%20report/DR1_s.pdf</p> <p>DR-2: What about explosivity and flammability of nanopowders? http://www.nanosafe.org/home/liblocal/docs/Dissemination%20report/DR2_s.pdf</p> <p>DR-3: Is it possible to easily measure the engineered nanoparticles at workplaces? http://www.nanosafe.org/home/liblocal/docs/Dissemination%20report/DR3_s.pdf</p> <p>DR-4: How to estimate nanoaerosol explosion risk? http://www.nanosafe.org/home/liblocal/docs/Dissemination%20report/DR4_s.pdf</p> <p>DR-5: What is nanotoxicology? http://www.nanosafe.org/home/liblocal/docs/Dissemination%20report/DR5_s.pdf</p> <p>DR-6: First results for safe procedures for handling nanoparticles. http://www.nanosafe.org/home/liblocal/docs/Dissemination%20report/DR6_s.pdf</p> <p>DR-7: Do current regulations apply to engineered nanomaterials? Standards - Why standardisation and standards are important? http://www.nanosafe.org/home/liblocal/docs/Dissemination%20report/DR7_s.pdf</p> <p>DR-8: Laser-Induced Breakdown Spectroscopy (LIBS): A possible tool for on-line monitoring and surveillance of nanoparticle production processes. http://www.nanosafe.org/home/liblocal/docs/Dissemination%20report/DR8_s.pdf</p> <p>2. Newsletters : Safe production and use of nanomaterials</p> <p>Newsletter - Issue 1: http://www.nanosafe.org/home/liblocal/docs/Press%20Room/Nanosafe_newsletter_Issue1.pdf</p> <p>Newsletter - Issue 2 http://www.nanosafe.org/home/liblocal/docs/Press%20Room/Nanosafe_newsletter_Issue%202.pdf</p>

	Newsletter - Issue 3 http://www.nanosafe.org/home/liblocal/docs/Press%20Room/Nanosafe_newsletter_Issue%203.pdf
Activities to be started in the coming year(s) and when results are expected	NanoSafe 2 is now complete (April 2009) - no further output expected.
Additional comments	None

NANOTRANSPORT	
Organisation Outline	
Name	NANOTRANSPORT
Primary Aim	NANOTRANSPORT is an EU research project addressing the occupational health risks associated with aerosols released during manufacture of nanoparticles, with the focus on aerosol agglomeration dynamics.
Contact Person/s	Dr Qinglan Wu
Web Address	http://research.dnv.com/nanotransport/
Organisation Type	International Working Group & Project
WP5 Liaison Partner	IOM
Organisation Structure	Elected Experts
Professional Background of members	Experts are located both within and outwith organisation
Research Areas	Risk Assessment Chemistry Instrument developer
How members/experts contribute their input	In workshops Via conduction of their own research within the organization Via reviews of current research
How Organisation is financed	EU funding
Topics the organization focuses on	Development Research Human health Risk assessment Regulations Test guidelines REACH Occupational safety
Stakeholder groups the organization provides information to	Industry Research Organizations EU Commission
How the information the organisation provides/work with is collected	Own research Use of data generated by others Expert Workshops
How results/outputs are communicated	Publications on website Publications in journals or books

	Presentations at conferences
Nanomaterials used	Pt nanoparticles
Tests used and endpoints studied	Characterization / physicochemical properties: Particle size distribution Aerosol agglomeration dynamics
latest reports or other outputs of the organization	<p>1. Reports NanoTRANSPORT: Final publishable project activity report</p> <p>2. Recommendations to EC NanoTRANSPORT: Recommendations to European Commission regarding: -Test aerosols for nano-toxicology studies -Testing of filters and protective equipment in the workplace -Metrology of nano-aerosols -Open questions: Research priorities</p> <p>3. Publications M. Seipenbusch, A. Binder, and G. Kasper (2008), Temporal evolution of nanoparticle aerosols in workplace exposure, Ann Occup Hyg. 52(8): 707-716</p> <p>4. Conference abstracts Kasper G. (2008): Life cycle of airborne nanoparticles and its implications for filtration and personal protection devices. Nanosafe 2008 Conference, November 5-7, Grenoble, France.</p> <p>Seipenbusch M., Kasper G., Grimm, H., Spielvögel J., Wu, Q. and Weitzenböck, J. (2008): NANOTRANSPORT project. Workshop on research on the safety of nanomaterials, 17-18 April 2008, Brussels.</p> <p>Seipenbusch M., Binder A. und Kasper G. (2008): Veränderung der abscheidungsrelevanten Parameter von Nanopartikeln zwischen Freisetzung und Rezeption am Arbeitsplatz. Jahrestreffen des ProcessNet (Dechema) Fachausschusses Gasreinigung, 19 February 2008, Germany.</p> <p>Wu Q., Seipenbusch M., Kasper G., Grimm H., Weitzenböck J. (2007). Selection of metrics relevant for inhalation health risk study of nanoparticle aerosols. Euro NanOSH Conference 2007- Nanotechnologies: A Critical Area in Occupational Safety and Health. 3-5 December 2007, Helsinki Finland.</p> <p>Seipenbusch, M., Binder, A., Kasper, G., Grimm, H. and Wu Q. (2007). Aerosol Dynamics of NP in Workplace Exposure. Euro NanOSH Conference 2007-Nanotechnologies: A Critical Area in Occupational Safety and Health. 3-5 December 2007, Helsinki Finland.</p> <p>Wu, Q. and Weitzenböck, J. (2007). A new approach to assessing the risk of using nanomaterials in industry. NANOMAT Conference, Bergen, Norway, 5-7 June 2007.</p> <p>Kasper, G. (2007). EU-Projekt Nanotransport: Szenarien zu Transportvorgängen und Veränderungen nanopartikulärer Aerosole</p>

	<p>zwischen Emissionsquelle und Rezeptor. BASF-Symposium Expositionsmessung luftgetragener Nanopartikel am Arbeitsplatz, 17 April 2007, Ludwigshafen.</p> <p>5. Conference Posters</p> <p>A. Binder¹, M. Seipenbusch, G. Kasper, J. Spielvogel, H.J. Grimm and Q. Wu (2007): Aerosol Dynamics of Nanoparticles in Workplace Exposure. European Aerosol Conference 2007 in September 2007 in Salzburg</p>
Activities to be started in the coming year(s) and when results are expected	The project is completed in April 2008. However, all the NANOTRANSPORT project partners are active participants in the NANODEVICE project under FP7, and will continue to be active in this area.
Additional comments	

NANOCAP	
Organisation Outline	
Name	NANOCAP
Primary Aim	<ol style="list-style-type: none"> 1. To give support to environmental NGOs and trade unions to develop their own position in the debate on nanotechnology based on scientific information. 2. To give academic and industrial R&D performers tools to introduce a "responsible nanotechnology". 3. To develop preliminary recommendations for public authorities to address ethics and health, safety and environmental risk issues.
Contact Person/s	Pieter van Broekhuizen
Web Address	www.nanocap.eu
Organisation Type	FP6 project, European Trade Unions/NGO network
WP5 Liaison Partner	RIVM
Organisation Structure	NANOCAP is not an 'expert' organisation. Open to selected participants only
Professional Background of members	Experts are located/work externally
Research Areas	Multidisciplinary group
How members/experts contribute their input	In workshops By written statement and organisation of other activities
How Organisation is financed	Public money from government
Topics the organization focuses on	<p>Research</p> <p>Development</p> <p>Societal aspects</p> <p>Environmental health</p> <p>Risk assessment</p> <p>Regulations</p> <p>Ethics</p> <p>REACH</p> <p>Occupational safety</p>

	Sustainability Environmental remediation
Stakeholder groups the organization provides information to	Politicians Member States NGOs Industry Trade Unions Sector organizations
How the information the organisation provides/work with is collected	Use of data generated by others Civil Society Dialogues Expert Workshops Stakeholder Dialogues
How results/outputs are communicated	Publications on website Publications in journals or books
Latest reports or other outputs of the organization	<ol style="list-style-type: none"> 1. Final Periodic Activity Report 2. Position statements of the CSOs 3. Proceedings of the NanoCap Conference "Working and living with Nanotechnologies"
Activities to be started in the coming year(s) and when results are expected	The project completed in April 2008. However, all the NANOTRANSPORT project partners are active participants in the NANODEVICE project under FP7, and will continue to be active in this area.
Additional comments	None

SAPHIR	
Organisation Outline	
Name	SAPHIR
Primary Aim	Develop instrumentation equipment for nano particles
Contact Person/s	Christophe Goepfert
Web Address	http://www.saphir-project.eu/
Organisation Type	International Project
WP5 Liaison Partner	CEA
Organisation Structure	The organization involves only salaried staff
Professional Background of members	Experts are part of the organization
Research Areas	Risk Assessment Chemistry
How members/experts contribute their input	Written Expertise
How Organisation is financed	Sale of commercial products/services/reports to various target groups
Topics the organization focuses on	Development Economic / Market aspects Risk assessment
Stakeholder groups the organization provides information to	Industry Universities

How the information the organisation provides/work with is collected	Own research Expert Workshops
How results/outputs are communicated	Publications in journals or books Patents
Materials and tests undertaken	
Nanomaterials used	Titanium dioxide Aluminium oxide Cerium oxide
Tests used and endpoints studied	Characterization / Physicochemical properties
Outputs	
latest reports or other outputs of the organization	Characterization of nanoparticles size in liquid and gas
activities to be started in the coming year(s) and when results are expected	Detection of nanoparticles in air : 2011
Additional comments	CILAS (http://www.cilas.com) is working to provide equipment which offer safe conditions of work in the field of nanotechnology

NANOIMPACTNET

Point of Contact: Dr Michael Riediker & Ms Nathalie Boschung
 Website: <http://www.nanoimpactnet.eu>
 WP5 Liaison Partner: IOM

Initiation to liaison received; gaining permission for liaison from management committee meant the deadline for liaison at month 12 was missed.

NANOTEST	
Organisation Outline	
Name	NanoTEST
Primary Aim	Development of alternative (high throughput) testing strategies for the assessment of the toxicological profile of nanoparticles used in medical diagnostics using in vitro, in vivo and in silica methods.
Contact Person/s	Dr Maria Dusinska & Ms Lise Fjellsbø
Web Address	http://www.nanotest-fp7.eu/
Organisation Type	International Project
WP5 Liaison Partner	IOM
Organisation Structure	Consortium of partners from 11 European Institutions
Professional Background of members	Experts are part of the organization
Research Areas	Life sciences: Risk Assessment Human Toxicology Chemistry Social Sciences: Computer modelling
How members/experts contribute their input	Written Expertise In workshops Conduction of their own research within the organization Reviews of current research
How Organisation is financed	Support from NGOs Public money from EU (European Commission) - 75%. 25% must be financed by each separate organization within the project; that is from private, governmental or semi-governmental sources
Topics the organization focuses on	Research Development Human health Risk assessment Test guidelines Ethics Medicines and medical technology
Stakeholder groups the organization provides information to	NGOs Industry (indirectly) Research Organizations Universities General public
How the information the organisation provides/work with is collected	Own research Use of data generated by others
How results/outputs are communicated	Publications on website Publications in journals or books Databases Reports to EC
Materials and tests undertaken	
Nanomaterials used	Iron nanoparticles Titanium dioxide Silicon dioxide

	Organic NM PLGA-PEO
Tests used and endpoints studied	Characterization / physicochemical properties: In growth media Human health (in vitro / in vivo): - Exposure: Short-term toxicity: In vivo; single exposure and sacrifice after 1,2,3 and 4 weeks In Vitro: 4, 24, 48, (72) hr exp
Outputs	
Latest reports or other outputs of the organization	The latest report is the 1 st annual report to the EC as this is an EC FP7 funded project. Along with this report follows deliverables from the first year. The results are to be published in peer review papers, and links to these will be available at project website.
Activities to be started in the coming year(s) and when results are expected	Continuation of in vitro testing, producing results to be used in Napira HUB database. In vivo experiments will be performed and compared to results in vitro. In silica methods depend on in vivo and in vitro experiments, and will continue their work based on these results.
Additional comments	none

NANODEVICE

Point of Contact: Kai Savolainen

Website:

ftp://ftp.cordis.europa.eu/pub/nanotechnology/docs/nanodevice_kai_savolainen.pdf

WP5 Liaison Partner: IOM

Invitation to liaise distributed, awaiting response from contact point.

NANOMMUNE

Organisation Outline

Name	NANOMMUNE
Primary Aim	NANOMMUNE is an EU-US partnership that is committed to filling the knowledge gap concerning the potential hazardous effects of engineered nanomaterials on human health and the environment through a comprehensive assessment with particular focus on effects of nanomaterials on the immune system.
Contact Person/s	Dr Bengt Fadeel & Dr Christine Chang
Web Address	http://projectcoordinator.ki.se/~NANOMMUNE
Organisation Type	International Project
WP5 Liaison Partner	IOM
Organisation Structure	Invited Experts
Professional Background of members	Experts are members of the organisation

Research Areas	Life sciences Risk Assessment Human Toxicology Chemistry
How members/experts contribute their input	Written Expertise In workshops Conduction of their own research within the organization Reviews of current research
How Organisation is financed	support from EC (FP7)
Topics the organization focuses on	Research Risk assessment Occupational safety Medicines and medical technology
Stakeholder groups the organization provides information to	Industry Research Organizations Universities General public
How the information the organisation provides/work with is collected	Own research Patents Databases Invited lectures
How results/outputs are communicated	Publications on website Publications in journals or books
Materials and tests undertaken	
Nanomaterials used	SWCNTs Zinc oxide Silicon dioxide Iron nanoparticles Silver nanoparticles Gold Cerium oxide Titanium dioxide
Tests used and endpoints studied	Characterization / physicochemical properties: size, shape, surface charge, etc. In Vitro: cytotoxicity, oxidative stress, cytokine release, other functional responses of immune-competent cells, transcriptomics assessment of gene expression profiles In Vivo: inflammation, oxidative stress/lipidomics studies, transcriptomics assessment of exposed tissues, ADME
Outputs	
latest reports or other outputs of the organization	List of publications is available at www.nanommune.eu <u>Publications in 2009:</u> Single-walled carbon nanotubes impair human macrophage engulfment of apoptotic cell corpses. Witasp E, Shvedova AA, Kagan VE, Fadeel B. Inhal Toxicol. 2009 Jul;21(S1):1053-1058. Efficient internalization of mesoporous silica particles of different sizes by primary human macrophages without impairment of macrophage clearance of apoptotic or antibody-opsonized target cells

	<p>Witasp E, Kupferschmidt N, Bengtsson L, Hultenby K, Smedman C, Paulie S, Garcia-Bennett AE, Fadeel B. Toxicol Appl Pharmacol. 2009 Jun 16</p> <p>Oxidative stress and inflammatory response in dermal toxicity of single-walled carbon nanotubes. Murray AR, Kisin E, Leonard SS, Young SH, Kommineni C, Kagan VE, Castranova V, Shvedova AA. Toxicology. 2009 Mar 29;257(3):161-71</p> <p>Mass-spectrometric analysis of hydroperoxy- and hydroxy-derivatives of cardiolipin and phosphatidylserine in cells and tissues induced by pro-apoptotic and pro-inflammatory stimuli. Tyurin VA, Tyurina YY, Jung MY, Tungekar MA, Wasserloos KJ, Bayır H, Greenberger JS, Kochanek PM, Shvedova AA, Pitt B, Kagan VE. J Chromatogr B Analyt Technol Biomed Life Sci. 2009 Mar 13</p> <p>Mechanisms of pulmonary toxicity and medical applications of carbon nanotubes: Two faces of Janus? Shvedova AA, Kisin ER, Porter D, Schulte P, Kagan VE, Fadeel B, Castranova V; Pharmacol Ther. 2009 Feb;121(2):192-204.</p> <p>Phosphatidylserine targets single-walled carbon nanotubes to professional phagocytes in vitro and in vivo Konduru NV, Tyurina YY, Feng W, Basova LV, Belikova NA, Bayir H, Clark K, Rubin M, Stolz D, Vallhov H, Scheynius A, Witasp E, Fadeel B, Kichambare PD, Star A, Kisin ER, Murray AR, Shvedova AA, Kagan VE. PLoS One. 2009;4(2):e4398.</p> <p><u>Publications in 2008:</u> Inhalation vs. aspiration of single-walled carbon nanotubes in C57BL/6 mice: inflammation, fibrosis, oxidative stress, and mutagenesis. Shvedova AA, Kisin E, Murray AR, Johnson VJ, Gorelik O, Arepalli S, Hubbs AF, Mercer RR, Keohavong P, Sussman N, Jin J, Yin J, Stone S, Chen BT, Deye G, Maynard A, Castranova V, Baron PA, Kagan VE. Am J Physiol Lung Cell Mol Physiol. 2008 Oct;295(4):552-65</p> <p>Increased accumulation of neutrophils and decreased fibrosis in the lung of NADPH oxidase-deficient C57BL/6 mice exposed to carbon nanotubes. Shvedova AA, Kisin ER, Murray AR, Kommineni C, Castranova V, Fadeel B, Kagan VE. Toxicol Appl Pharmacol. 2008 Sep 1;231(2):235-40</p>
activities to be started in the coming year(s) and when results are expected	The 18 month report will be submitted in 2010 and the 36 month report to the EC will be submitted in 2011.
Additional comments	The project coordinator is also a member of the European NanoSafety Cluster (Chair: Dr. Georgios Katalagarianakis).

NanoReTox

Point of Contact: Dr Eva Valsami-Jones

Website: ftp://ftp.cordis.europa.eu/pub/nanotechnology/docs/nanoretox_eva_valsami-jones.pdf

WP5 Liaison Partner: IOM

Invitation to liaise distributed & contact point has indicated intention to become involved in process but missed submission deadline due to work commitments.

Liaison input will be incorporated into the month 24 report when received.

NEURONANO

Organisation Outline

Name	Neuronano
Primary Aim	To probe the interactions of nanoparticles with the brain, and determine potential risk factors based on ROS generation potential & access to the brain.
Contact Person/s	Professor Kenneth Dawson / Dr. Iseult Lynch
Web Address	www.neuronano.eu
Organisation Type	International Project
WP5 Liaison Partner	CEA
Organisation Structure	Elected Experts,
Professional Background of members	Experts are located/work externally
Research Areas	Life sciences: Chemistry, Human Toxicology, Risk Assessment
How members/experts contribute their input	Written Expertise Conduction of their own research within the organization
How Organisation is financed	Public money from government (EU FP7)
Topics the organization focuses on	Research Human health Risk assessment
Stakeholder groups the organization provides information to	Politicians Member States Regulatory Agencies & Authorities
How the information the organisation provides/work with is collected	Own research
How results/outputs are communicated	Publications in journals or books Publications on website
Nanomaterials used	Titanium dioxide Gold

	Polystyrene Silicon dioxide
Tests used and endpoints studied	Characterization / physicochemical properties Human health (in vitro / in vivo): - Exposure - Short-term toxicity - Long-term toxicity - Kinetics - In Vitro
latest reports or other outputs of the organization	NeuroNano started on February 1 st 2009, so the first direct publications are in preparation / in press at present. Background publications include: Cabaleiro-Lago, C., Quinlan-Pluck, F., Lynch, I., Lindman, S., Minogue, A.M., Thulin, E., Walsh, D.M., Dawson, K.A., Linse, S. Inhibition of amyloid beta protein fibrillation by polymeric nanoparticles. <i>J Am Chem Soc.</i> 2008, 130, 15437-15443. Linse S, Cabaleiro-Lago C, Xue W-F, Lynch I, Lindman S, Thulin E, Radford SE, Dawson KA, Nucleation of protein fibrillation by nanoparticles, <i>PNAS</i> , 2007, 104, 8691-8696.
Activities to be started in the coming year(s) and when results are expected	None provided
Additional comments	None

ENRHES	
Organisation Outline	
Name	ENRHES
Primary Aim	Conduct and publish the ENRHES review
Contact Person/s	Professor Vicki Stone & Dr Steve Hankin
Web Address	http://nmi.jrc.ec.europa.eu/project/ENRHES.htm
Organisation Type	International Project
WP5 Liaison Partner	IOM
Organisation Structure	Invited experts
Professional Background of members	Experts are part of the organization
Research Areas	Life sciences: Risk Assessment Human Toxicology Ecotoxicology Chemistry
How members/experts contribute their input	Reviews of current research
How Organisation is financed	Public money from government

Topics the organization focuses on	Human health Environmental health Risk assessment
Stakeholder groups the organization provides information to	Politicians, Member States NGOs Industry Research Organizations Universities General public Trade Unions Sector organization
How the information the organisation provides/work with is collected	Use of data generated by others Via conduction of an Industry Survey
How results/outputs are communicated	Publications on website Publications in journals or books
Materials and tests undertaken	
Nanomaterials used	N/A
Tests used and endpoints studied	N/A
Outputs	
latest reports or other outputs of the organization	Final draft report due for submission to the EC October 2009.
Activities to be started in the coming year(s) and when results are expected	N/A - project was 1 year duration and concluded in August 2009.
Additional comments	None

Framing Nano	
Organisation Outline	
Name	Framing Nano
Primary Aim	Aim of the project is to establish an International multi-stakeholder dialogue platform framing the responsible development of Nanosciences and Nanotechnologies (NS&T), to develop a Governance platform for N&N.
Contact Person/s	Dr Elvio Mantovani
Web Address	www.framingnano.eu
Organisation Type	International Project
WP5 Liaison Partner	RIVM
Organisation Structure	Partners of a project consortium
Professional Background of members	Experts are located/work externally
Research Areas	Life Sciences: - Risk Assessment Social Sciences Technology assessment and planning Communication

How members/experts contribute their input	Written Expertise In workshops Conduction of their own research within the organization
How Organisation is financed	FP7 EU project
Topics the organization focuses on	Societal aspects Risk assessment Regulations Regulation and governance of N&N
Stakeholder groups the organization provides information to	Politicians, Member States NGOs Industry Research Organizations Universities General public Trade Unions
How the information the organisation provides/work with is collected	Expert Workshops Stakeholder Dialogues
How results/outputs are communicated	Publications on website Project newsletter Websites: www.framingnano.eu , www.euractiv.com and others
Materials and tests undertaken	
Nanomaterials used	N/A
Tests used and endpoints studied	N/A
Outputs	
latest reports or other outputs of the organization	Mapping study on regulation and governance of nanotechnologies , report published within the EU FP7 FramingNano project (Jan 2009) Abstract: The report is a detailed study, providing a picture of recent developments regarding regulation and governance of Nanoscience & Nanotechnologies in Europe and worldwide, identifying relevant N&N stakeholders organisations, and making an assessment of the information collected. The report gives an insight on the international debate on risks and concerns related to nanotechnologies (EHS issues and ELSI), and provides an ample overview of the different regulatory approaches proposed or already developed to deal with these issues, in particular: <ul style="list-style-type: none"> • government and regulatory agencies initiatives and policies on nanotechnology regulation; • national/international bodies and authorities involved • standardization activities • stakeholders' voluntary measures Finally, initiatives and positions on these issues of different kind of stakeholders (businesses, researchers, civil society organisations) are presented, reporting the position of more than 25 organisations and social groups worldwide.
activities to be started in the coming year(s) and when results are expected	FramingNano International Conference: A New Governance Framework for Nanotechnologies, held Tuesday 15 December 2009 at the Sheraton Brussels Airport Hotel, Brussels

	FramingNano draft Governance Plan report - publication of first draft planned in December 2009
Additional comments	None

Nano Charm	
Organisation Outline	
Name	Nano Charm
Primary Aim	To set up new diagnostics tools for nanomaterials characterization and nanotechnology development; to promote education and dissemination in those areas
Contact Person/s	Dr Maria Losurdo
Web Address	http://www.nanocharm.org/
Organisation Type	International Project
WP5 Liaison Partner	IoNano
Organisation Structure	Elected experts
Professional Background of members	Experts are located/work externally
Research Areas	Chemistry, Physics, Material Science
How members/experts contribute their input	Written Expertise In workshops Conduction of their own research within the organization Reviews of current research
How Organisation is financed	European project funding
Topics the organization focuses on	Research
Stakeholder groups the organization provides information to	Industry Research Organizations Universities General public
How the information the organisation provides/work with is collected	Own research Expert Workshops Stakeholder Dialogues
How results/outputs are communicated	Publications on website Publications in journals or books Databases
Materials and tests undertaken	
Nanomaterials used	Silver nanoparticles Titanium dioxide Cerium oxide Aluminium oxide Zinc oxide Silicon dioxide Gold
Tests used and	Characterization / physicochemical properties

endpoints studied	
latest reports or other outputs of the organization	<p>Reports are available to public at www.nanocharm.org (upon registration):</p> <ul style="list-style-type: none"> • NanoCharM WP1 - D1.3 Report on First Analysis of Organisations, Individuals and Industry. • NanoCharM WP6 - D6.5 Report on Organised Short Courses, Tutorials, Seminars and Student Visits • NanoCharM WP8 - D8.2 Annual Report • NanoCharM WP7 Strategy and Technology Innovation - D7.1 Report : • NanoCharM WP5 Correlation Techniques and Cross-Fertilisation - D5.1a Report • NanoCharM WP4 System applications and Standardization - D4.1 Report • NanoCharM WP3 Modelling and Theorisation - D3.1 Report • NanoCharM WP2 Measurements and Innovation - D2.1 Report • UK MNT Metrology Roadmap Update 2007 • Strategic Research Agenda in Photonics • Semiconductor Roadmap Summary • Roadmap on Nano Optics and Photonics • Quantum Computing Roadmap • Photonics for the 21st Century • Nanotomography and its application to material science • Nanotech Roadmap 2007 • Nanoforum - Nanometrology Report
Activities to be started in the coming year(s) and when results are expected	<p>Expected in the next year -</p> <ol style="list-style-type: none"> 1. nanomaterial characterization work 2. workshops and schools organization on nanomaterials synthesis, characterization and exploitation 3. developments of devices based on graphene
Additional comments	None

Nano2Life

Point of Contact: Dr Patrick Boisseau
Website: <http://www.nano2life.org/content.php?id=1>
WP5 Liaison Partner: CEA

*Partner declined to participate - project completed.
Pdf of final workshop (Jun 2008) obtained and will be held on record for reference as required.*

CANAPE

Point of Contact: Dr John Robertson

Website: http://cordis.europa.eu/fetch?CALLER=FP6_PROJ&ACTION=D&DOC=1&CAT=PROJ&QUERY=011b5a03b072:27dd:14c43379&RCN=74336

ftp://ftp.cordis.europa.eu/pub/nanotechnology/docs/canape_arie_bruinik.pdf

WP5 Liaison Partner: EMPA

Invitation to liaise distributed - no response from contact point prior to deadline. Liaison will be re-appraised for 2010.

NanoMed Round Table

Organisation Outline

Name	Nanomed Round Table
Primary Aim	Providing insights, guidance and recommendations for policy development
Contact Person/s	Dr David Bennett
Web Address	http://www.nanomedroundtable.org/
Organisation Type	International Project
WP5 Liaison Partner	RIVM
Organisation Structure	Invited experts
Professional Background of members	Experts are located/work externally
Research Areas	Life sciences, Social Sciences, Patients' Organisations
How members/experts contribute their input	Written Expertise In workshops Conduction of their own research within the organization Reviews of current research
How Organisation is financed	European Commission
Topics the organization focuses on	Research Development Economic aspects, market Societal aspects Human health Environmental health Risk assessment Regulations Ethics Medicines and medical technology
Stakeholder groups the organization provides information to	Politicians, Member States NGOs Industry Research Organizations General public

	Universities Trade Unions Sector organization
How the information the organisation provides/work with is collected	Own research Use of data generated by others Civil Society Dialogues Expert Workshops
How results/outputs are communicated	Publications on website Publications in journals or books
Materials and tests undertaken	
Nanomaterials used	N/A
Tests used and endpoints studied	N/A
Outputs	
Latest reports or other outputs of the organization	Please see http://www.nanomedroundtable.org/
activities to be started in the coming year(s) and when results are expected	NanoMed Round Table is a one year EC project, Jan-Dec 2009 - final report due February 2010
Additional comments	None

II. Governmental, Quasi-Governmental & National Programmes

Initiatives & organisations were identified from both national and international governmental bodies and national level programmes, and the lead scientist contacted for each. The following chapter outlines the feedback received from each organisation on both its primary goals and aims for the coming months.

OECD WMPN	
Organisation Outline	
Name	OECD Working Party on Manufactured Nanomaterials
Primary Aim	The overall objective of the OECD's programme on manufactured nanomaterials is to promote international co-operation in addressing human health and environmental safety aspects of manufactured nanomaterials. The programme aims to develop methods to efficiently assess the safety of manufactured nanomaterials so as to avoid adverse effects in the short, medium and longer term. Accordingly, the programme concentrates on the human health and environmental safety implications of manufactured nanomaterials (limited mainly to the chemicals sector); and will ensure that the approach to hazard, exposure and risk assessment is science-based and of a high internationally harmonised standard.
Contact Person/s	Peter Kearns and Mar Gonzalez
Web Address	www.oecd.org/env/nanosafety
Organisation Type	International and intergovernmental Policy Body
WP5 Liaison Partner	RIVM
Organisation Structure	National delegations (governmental nominees) and OECD Secretariat (employees)
Professional Background of members	Experts are both part of the organization and are located/work externally
Research Areas	Life sciences: Risk Assessment Human Toxicology Ecotoxicology Chemistry Regulators
How members/experts contribute their input	Written Expertise In workshops Conduction of their own research within the organization Reviews of current research Multiple other ways
How Organisation is financed	Not stated
Topics the organization focuses on	Research (EHS) Human health Environmental health Risk assessment Regulations Test guideline Non-food consumer products Occupational safety Environmental remediation, drinking water purification

	In addition, the programme on the safety of manufactured nanomaterials liaise with other OECD bodies dealing with: pesticides, biocides, chemical accidents, etc.
Stakeholder groups the organization provides information to	Politicians, Member States NGOs Industry Research Organizations Universities General public Trade Unions Sector organization
How the information the organisation provides/work with is collected	Expert Workshops Stakeholder Dialogues Use of data generated by others
How results/outputs are communicated	Publications on website Publications in journals or books Databases Events
Materials and tests undertaken	
Nanomaterials used	SWCNTs MWCNTs Silver nanoparticles Iron nanoparticles Carbon black Aluminium oxide Titanium dioxide Cerium oxide Zinc oxide Silicon dioxide Polystyrene Dendrimers Nanoclays Fullerenes
Tests used and endpoints studied	Characterization / physicochemical properties Human health (in vitro / in vivo) Environmental health (in vitro / in vivo): See document <i>List of Manufactured Nanomaterials and List of Endpoints for Phase One of the OECD Testing Programme</i>
Outputs	
latest reports or other outputs of the organization	Recent publications: <ul style="list-style-type: none"> • EHS Research Strategies on Manufactured Nanomaterials: Compilation of Outputs (2009) • Identification and Compilation and Analysis of Guidance Information for Exposure Measurement and Exposure Mitigation: Manufactured Nanomaterials (2009) • Emission Assessment for Identification of Sources and Release of Airborne Manufactured Nanomaterials in the Workplace - Compilation of Existing Guidance (2009) • Comparison of Guidance on Selection of Skin Protective Equipment and Respirators for Nanotechnology Workplace: Manufactured Nanomaterials (2009) • Report of an OECD Workshop on Exposure Assessment and Exposure Mitigation: Manufactured Nanomaterials (2009)

	<ul style="list-style-type: none"> • Guidance Manual for the Testing of Manufactured Nanomaterials: OECD Sponsorship Programme (2009) • Preliminary Review of OECD Test Guidelines for Applicability to Nanomaterials (2009) • Work Programme on Manufactured Nanomaterials 2009-2012 (2009) • Current Developments/ Activities on the Safety of Manufactured Nanomaterials: Tour de table at the 5th Meeting of the Working Party on Manufactured Nanomaterials (2009) • Manufactured Nanomaterials: Roadmap for Activities during 2009 and 2012 (2009) <p>More publications are available at: www.oecd.org/env/nanosafety:</p>
activities to be started in the coming year(s) and when results are expected	See document: Manufactured Nanomaterials: Roadmap for Activities during 2009 and 2012 (2009) and Work Programme on Manufactured Nanomaterials 2009-2012 (2009)
Additional comments	See www.oecd.org/env/nanosafety and the OECD Database on Research into the Safety of Manufactured Nanomaterials for further information

OECD WPN	
Organisation Outline	
Name	OECD Working Party on Nanotechnology
Primary Aim	Policy
Contact Person/s	Jacqueline Allan
Web Address	www.oecd.org/sti/nano
Organisation Type	International and intergovernmental Policy Body
WP5 Liaison Partner	RIVM
Organisation Structure	National delegations (governmental nominees) and OECD Secretariat (employees)
Professional Background of members	Experts are both part of the organization and are located/work externally
Research Areas	Life sciences: Social Sciences Science including physics, governmental ministries and agencies, academia, public sector industry etc
How members/experts contribute their input	Written Expertise In workshops Multiple other ways
How Organisation is financed	Not stated
Topics the organization focuses on	Research Development Economic aspects, market Societal aspects Human health Risk assessment Ethics Policy

Stakeholder groups the organization provides information to	Politicians, Member States NGOs Industry Research Organizations Universities General public Trade Unions Sector organization
How the information the organisation provides/work with is collected	Own research Use of data generated by others Civil Society Dialogues Opinion Polls Expert Workshops Stakeholder Dialogues
How results/outputs are communicated	Publications on website Publications in journals or books Databases Events
Materials and tests undertaken	
Nanomaterials used	N/A
Tests used and endpoints studied	N/A
Outputs	
latest reports or other outputs of the organization	1. Reports: <ul style="list-style-type: none"> • OECD Working Party on Nanotechnology (WPN): Vision Statement • Nanotechnology: An Overview Based on Indicators and Statistics (STI Working Paper 2009/7) • Inventory of National Science, Technology and Innovation Policies for Nanotechnology 2008
activities to be started in the coming year(s) and when results are expected	
Additional comments	None

NATO

Point of Contact: Dr Susanne Michaelis
Website: <http://www.nato.int/science/>
WP5 Liaison Partner: IOM

Partner declined to take part in process following receipt of invitation.

NIOSH

Point of Contact: Dr Paul Schulte
 Website: <http://www.cdc.gov/niosh/topics/nanotech/>
 WP5 Liaison Partner: IOM

Invitation to liaise distributed - no response from contact point prior to deadline. Liaison will be re-appraised for 2010.

DEFRA

Point of Contact: Dr Helinor Johnston
 Website: <http://www.defra.gov.uk/ENVIRONMENT/nanotech/index.htm>
 WP5 Liaison Partner: IOM

Point of contact for liaison established. Will commence from November 2009 and output included in month 24 liaison report.

US National Nanotechnology Initiative (as representative of EPA)

Organisation Outline

Name	US National Nanotechnology Initiative as representative of EPA
Primary Aim	Advance a world-class nanotechnology research and development program. Foster the transfer of new technologies into products for commercial and public benefit. Develop and sustain educational resources, a skilled workforce, and the supporting infrastructure and tools to advance nanotechnology. Support responsible development of nanotechnology
Contact Person/s	Nora F. Savage
Web Address	http://www.nano.gov/ or www.epa.gov/ncer/nano
Organisation Type	Governmental Agency
WP5 Liaison Partner	IOM
Organisation Structure	Invited government staff
Professional Background of members	Experts are located/work externally
Research Areas	Risk Assessment , Human Toxicology, Ecotoxicology, Chemistry, Policy, Statistics, Metrology etc.
How members/experts contribute their input	Written Expertise, In workshops, Conduction of their own research within the organization, Reviews of current research

How Organisation is financed	Supported by larger organizations
Topics the organization focuses on	Depending upon the issue before the group, all of the following topics can and many have come up: Research Development Economic aspects, market Societal aspects Human health Environmental health Risk assessment Regulations Test guidelines Ethics Food and feed Non-food consumer products Cosmetics Pesticides Biocides REACH Occupational safety Sustainability Environmental remediation, drinking water purification Medicines and medical technology
Stakeholder groups the organization provides information to	Politicians, Member States NGOs Industry Research Organizations Universities General public Trade Unions Sector organization
How the information the organisation provides/work with is collected	Own research, Use of data generated by others, Civil Society Dialogues, Opinion Polls, Expert Workshops, Stakeholder Dialogues and other various methods depending on the task at hand
How results/outputs are communicated	Publications on website Publications in journals or books Databases Internet
Materials and tests undertaken	
Nanomaterials used	N/A
Tests used and endpoints studied	N/A
Outputs	
latest reports or other outputs of the organization	All NNI reports are available on www.nano.gov

Activities to be started in the coming year(s) and when results are expected	Activities and workshops are listed on the website as well.
Additional comments	

Agence Nationale de la Recherche (pnano projects)	
Organisation Outline	
Name	Agence Nationale de la Recherche (pnano projects)
Primary Aim	Financing projects selected on the basis of excellence
Contact Person/s	Thierry BOSC
Web Address	http://www.agence-nationale-recherche.fr/ or http://www.pnano.org/
Organisation Type	Governmental Agency
WP5 Liaison Partner	CEA-OMNT
Organisation Structure	1-Staff for organisation and management; 2-external experts (invited)
Professional Background of members	Experts are located/work externally
Research Areas	Social Sciences, Life sciences, "Hard" Sciences
How members/experts contribute their input	Written Expertise Reviews of current research
How Organisation is financed	Public money from government
Topics the organization focuses on	Research Development Economic aspects, market Societal aspects Human health Environmental health Risk assessment Regulations Ethics Non-food consumer products Medicines and medical technology Occupational safety
Stakeholder groups the organization provides information to	Politicians, Member States Industry Research Organizations Universities General public
How the information the organisation provides/work with is collected	Use of data generated by others Expert Workshops

How results/outputs are communicated	Publications on website Publications in journals or books Patents Databases Seminar and internal reports (deliverables and final project report)
Materials and tests undertaken	
Nanomaterials used	N/A
Tests used and endpoints studied	N/A
Outputs	
latest reports or other outputs of the organization	Annual reports (available in French): <ul style="list-style-type: none"> • Rapport d'activité 2008 • Rapport d'activité 2007
activities to be started in the coming year(s) and when results are expected	- Each year several calls for project funding - Continuous survey of running projects (project duration 1 to 5 years)
Additional comments	This questionnaire reports the activity of only one funding program of the ANR that is specifically dedicated to nanosciences and nanotechnologies (PNano). Other funding programs from the ANR might also include projects of interest (for nano & HSE).

NanoNed	
Organisation Outline	
Name	NanoNed
Primary Aim	NanoNed, the Nanotechnology network in the Netherlands, is an initiative of eight knowledge institutes and Philips. It clusters the nanotechnology and enabling technology strengths of the Dutch industrial and scientific nanotechnology knowledge infrastructure in a national network and enables a knowledge leap through strong research projects, an infrastructure investment program and economically relevant dissemination of the knowledge and expertise, resulting in high added value economic growth. The total budget for this NanoNed program amounts to 235 M€.
Contact Person/s	Dr Rens Vandeburg
Web Address	www.nanoned.nl
Organisation Type	National Project & Network
WP5 Liaison Partner	RIVM
Organisation Structure	Any expert from the field may join
Professional Background of members	Experts are located/work externally
Research Areas	Life Sciences: Risk Assessment Chemistry Physics Maths Astronomy Engeneering => beta Social Sciences

How members/experts contribute their input	Written Expertise In workshops Conduction of their own research within the organization Reviews of current research User committees
How Organisation is financed	Public money from government Support from industry
Topics the organization focuses on	Research Development Economic aspects, market Societal aspects Risk assessment Ethics Non-food consumer products
Stakeholder groups the organization provides information to	Politicians, Member States NGOs Industry Research Organizations Universities General public Trade Unions Sector organization
How the information the organisation provides/work with is collected	Own research Expert Workshops Stakeholder Dialogues
How results/outputs are communicated	Publications on website Publications in journals or books Patents Conferences User committees Media: TV, Radio, Newspapers
Materials and tests undertaken	
Nanomaterials used	N/A
Tests used and endpoints studied	N/A
Outputs	
Latest reports or other outputs of the organization	Reports: <ul style="list-style-type: none"> • Annual report 2008
Activities to be started in the coming year(s) and when results are expected	Numerous Flagship meetings
Additional comments	None

Swiss Governmental Network 'Nano'	
Organisation Outline	
Name	Swiss Governmental Network 'Nano'
Primary Aim	<i>Not specified</i>
Contact Person/s	Martine Bourqui-Pittet, Swiss Federal Office of Public Health
Web Address	www.umwelt-schweiz.ch/nanotechnologie ; www.bag.admin.ch/themen/chemikalien/00228/00510/index.html?lang=de
Organisation Type	National Network
WP5 Liaison Partner	EMPA
Organisation Structure	Network of Governmental Agencies. No members, the organization involves only salaried staff
Professional Background of members	Experts are part of the organization
Research Areas	Life sciences: Risk Assessment, Human Toxicology, Ecotoxicology, Chemistry
How members/experts contribute their input	Written Expertise, In workshops
How Organisation is financed	Public money from government
Topics the organization focuses on	Human health Environmental health Risk assessment Regulations Test guidelines Food and feed Non-food consumer products Cosmetics Pesticides Biocides Occupational safety
Stakeholder groups the organization provides information to	Politicians, Member States NGOs Industry Research Organizations Universities General public
How the information the organisation provides/work with is collected	Use of data generated by others Expert Workshops Stakeholder Dialogues
How results/outputs are communicated	Publications on website Publications in journals or books
Outputs	
latest reports or other outputs of the organization	Reports: <ul style="list-style-type: none"> • Swiss Action Plan Synthetic Nanomaterials • Precautionary Matrix for Synthetic Nanomaterials
activities to be	Guidance for the disposal of industrial waste containing

started in the coming year(s) and when results are expected	nanomaterials; Guidance for the inclusion of nanospecific information in the Material Safety Data Sheet (MSDS); Review on Flammability and Explosiveness regarding Major Accidences and Nanomaterials;
Additional comments	None given

BMBF Germany
Point of Contact: To be established Website: WP5 Liaison Partner: IOM
<i>Invitation to liaise to be distributed when point of contact established; results will be included in month 24 report.</i>

BfR Germany
Point of Contact: To be established Website: WP5 Liaison Partner: IOM
<i>Invitation to liaise to be distributed when point of contact established; results will be included in month 24 report.</i>

HSE Horizon Scanning	
Organisation Outline	
Name	Health & Safety Laboratory / Health Improvement Group / Occupational Hygiene Unit
Primary Aim	Keeping the UK's workforce safe, healthy and productive.
Contact Person/s	Dr Rosemary Gibson
Web Address	http://www.hsl.gov.uk/centres/nano/nano_intro.html
Organisation Type	Governmental Agency
WP5 Liaison Partner	IOM
Organisation Structure	No members, the organization involves only salaried staff
Professional Background of members	Experts are part of the organization
Research Areas	Life sciences: Risk Assessment Human Toxicology Chemistry Many other disciplines covering human factors and major hazards within

	occupational health remit.
How members/experts contribute their input	Written Expertise In workshops Conduction of their own research within the organization Reviews of current research Via tailored, multi-disciplinary solutions to health & safety questions.
How Organisation is financed	Public money from government Sale of commercial products/services/reports to various target groups
Topics the organization focuses on	Research Development Human health Risk assessment Regulations Test guidelines Cosmetics Pesticides Biocides REACH Occupational safety
Stakeholder groups the organization provides information to	Industry Research Organizations Universities General public
How the information the organisation provides/work with is collected	Own research Use of data generated by others Expert Workshops
How results/outputs are communicated	Publications on website Publications in journals or books Databases
Materials and tests undertaken	
Nanomaterials used	SWCNTs MWCNTs Iron nanoparticles Carbon black Titanium dioxide Aluminium oxide Cerium oxide Silicon dioxide Polystyrene
Tests used and endpoints studied	Characterization / physicochemical properties Human health (in vitro) PBPK modelling

Outputs	
latest reports or other outputs of the organization	<p>Reports:</p> <ul style="list-style-type: none"> NRCG Task Force 3 (Prepared by Gibson, R.M., Curtis A.J., Evans, G.S.) (2006). Report on in vitro methods for assessing the toxicity of nanoparticles. Annex 4 to UK Government Research - a progress report "Characterising the potential risks posed by engineered nanoparticles" http://www.defra.gov.uk/environment/nanotech/research/pdf/nanoparticles-progressreport.pdf <p>Papers:</p> <ul style="list-style-type: none"> Mark D. (2009) Measurement and characterisation of nanoparticles in the workplace. Environmental Science and Technology no. 24 - "Nanotechnology: Consequences for Human Health & the Environment". Bard, D., Mark, D., Mohlmann, C. (2009) Current standardization for nanotechnology. Journal of Physics: Conference Series. In press
activities to be started in the coming year(s) and when results are expected	EU FP7 project Nanodevice.
Additional comments	

<p>The Foresight Institute</p> <p>Point of Contact: Christine Peterson Website: http://www.foresight.org/about/index.html WP5 Liaison Partner: IoNano</p> <p><i>Invitation to liaise distributed, contact point felt that expertise was not correct for taking part in the task at hand so withdrew.</i></p>

ICON	
Organisation Outline	
Name	ICON and Center for Biological and Environmental Nanotechnology (CBEN)
Primary Aim	Produce and communicate information about risk to promote the safe and responsible use of nanomaterials
Contact Person/s	Kristen M. Kulinowski, PhD
Web Address	http://icon.rice.edu and http://cben.rice.edu
Organisation Type	University, International Network
WP5 Liaison Partner	IoNano
Organisation Structure	Anyone can join
Professional Background of members	Experts are located/work externally

Research Areas	Life sciences: Risk Assessment Human Toxicology Ecotoxicology Chemistry Social Sciences Nanomaterial production, regulation & funding
How members/experts contribute their input	Written Expertise In workshops Conduction of their own research within the organization Reviews of current research
How Organisation is financed	Support from industry Public money from government
Topics the organization focuses on	Research Development Societal aspects Human health Environmental health Risk assessment Regulations Non-food consumer products Occupational safety
Stakeholder groups the organization provides information to	Politicians, Member States NGOs Industry Research Organizations Universities Trade Unions Journalists
How the information the organisation provides/work with is collected	Own research Use of data generated by others Expert Workshops Stakeholder Dialogues
How results/outputs are communicated	Publications on website Publications in journals or books Databases RSS, Twitter Mailing list
Materials and tests undertaken	
Nanomaterials used	SWCNTs MWCNTs Iron nanoparticles Titanium dioxide Zinc oxide Silicon dioxide Fullerenes Gold Nanoshells Quantum dots
Tests used and endpoints studied	Characterization / physicochemical properties: various microscopic and spectroscopic techniques Human health (in vitro / in vivo): Short-term toxicity, In Vitro tests, for biomedical applications - all testing required by FDA

	Environmental health (in vitro / in vivo): (bio)degradation, Bioavailability, Bioconcentration / Bioaccumulation, Short-term toxicity, Long-term toxicity
Outputs	
latest reports or other outputs of the organization	<p>1. Online Resources:</p> <ul style="list-style-type: none"> • GoodNanoGuide Wiki for collecting and disseminating good occupational practices • Virtual Journal of Nano-EHS • Virtual Journal of Nano-EHS Database Analysis Tool <p>2. Reports:</p> <ul style="list-style-type: none"> • Research Priorities to Advance Eco-Responsible Nanotechnology http://pubs.acs.org/doi/abs/10.1021/nn9006835 summary of workshop • Towards Predicting Nano-Biointeractions: An International Assessment of Nanotechnology Environment, Health and Safety Research Needs" • A Survey of Current Practices in the Nanotechnology Workplace: Phase 2
activities to be started in the coming year(s) and when results are expected	Continued development of the GoodNanoGuide
Additional comments	Kristen Kulinowski is part of both ICON (outreach, community-building, information dissemination) and CBEN (research and technology development). The responses on question 4 pertain to CBEN. Most other info pertains to ICON.

III. Other Observatories

Other Observatories were identified, and the lead scientist contacted for each. The following chapter outlines the feedback received from each organisation on both its primary goals and aims for the coming months.

IOM - SAFENANO	
Organisation Outline	
Name	SAFENANO
Primary Aim	SAFENANO is a UK Nanotechnology Centre of Excellence, designed to help the industrial and academic communities assess and control potential risks to their workforce, as well as to consumers, the general population and the environment, through both information provision and consultancy services.
Contact Person/s	Miss Bryony Ross
Web Address	www.safenano.org
Organisation Type	National Project & Network, Consultancy Provider
WP5 Liaison Partner	IOM
Organisation Structure	The organization involves salaried staff & Invited Experts
Professional Background of members	Experts are both part of the organization and are located/work externally
Research Areas	Risk Assessment Human Toxicology Ecotoxicology Chemistry Metrology Emerging Technologies Social Sciences Scientific Communication
How members/experts contribute their input	Written Expertise Reviews of current research In Workshops / Conferences
How Organisation is financed	Public money from government Sale of commercial products/services/reports to various target groups
Topics the organization focuses on	Research Development Societal aspects Human health Environmental health Risk assessment Regulations Test guidelines Ethics Food and feed Non-food consumer products Cosmetics Pesticides Biocides REACH Occupational safety Sustainability

	Environmental remediation, drinking water purification Medicines and medical technology Economic aspects, market Any other areas in which Nano EHS issues may present
Stakeholder groups the organization provides information to	Politicians, Member States NGOs Industry Universities Research Organizations General public Trade Unions Sector organization
How the information the organisation provides/work with is collected	Stakeholder Dialogues Expert Workshops Own research Use of data generated by others
How results/outputs are communicated	Publications on website Publications in journals or books Databases Presentations at Conferences/Events
Materials and tests undertaken	
Nanomaterials used	N/A
Tests used and endpoints studied	N/A
Outputs	
latest reports or other outputs of the organization	<p>1. News Output: See www.safenano.org for daily news updates.</p> <p>2. Feature Articles published monthly:</p> <ul style="list-style-type: none"> • Linking Nanoparticle Exposure to Pulmonary Fibrosis and Mortality, Evaluating the Key Messages of Song Et. Al. - Bryony Ross, SAFENANO • Toxicity of multi-wall carbon nanotubes in rats exposure for 3 months, a SAFENANO Commentary on Ma-Hock et. al. - Sheona Peters & Rob Aitken, SAFENANO • Nanotechnology and Nanoscience: Opportunities and Uncertainties...5 Years on - Rob J Aitken, SAFENANO <p>3. Published Reports:</p> <ul style="list-style-type: none"> • Aitken RJ, Hankin SM, Ross B, Tran CL, Stone V, Fernandes TF, Donaldson K, Duffin R, Chaudhry Q, Wilkins TA, Wilkins SA, Levy LS, Rocks SA, Maynard A (2009) DEFRA Report CB0409: EMERGNANO - A review of completed and near completed environment, health and safety research on nanomaterials • CL Tran, SM Hankin, B Ross, RJ Aitken, AD Jones, K Donaldson, V Stone, R Tantra (2008), DEFRA Report CB0406: HARN: An outline scoping study to determine whether High Aspect Ratio nanoparticles should raise the same concerns as do asbestos fibres • Hankin, S.M.; Tran, C.L.; Ross, B.; Donaldson, K; Stone, V.; Chaudhry, Q (2008), DEFRA Report CB0405: CELL PEN - A study to identify physicochemical factors controlling the capacity of

	nanoparticles to penetrate cells.
activities to be started in the coming year(s) and when results are expected	ENRHES FP7 final report Continued development & expansion of SAFENANO online & SAFENANO Scientific Services
Additional comments	

CEA-OMNT	
Organisation Outline	
Name	Observatory for Micro&Nanotechnologies (OMNT)
Primary Aim	To perform a continuous technical and scientific survey of the micro and nanotechnologies and to provide a critical review of the trends and the evolutions in the domain..
Contact Person/s	Stéphane FONTANELL
Web Address	www.omnt.fr
Organisation Type	Joint unit
WP5 Liaison Partner	CEA-OMNT
Organisation Structure	Invited Experts
Professional Background of members	Experts are located/work externally
Research Areas	Life sciences: Risk Assessment, Human Toxicology, Ecotoxicology, Chemistry, Biology, medicine Social Sciences Physics, optics, nanoelectronics, nanoenergy
How members/experts contribute their input	Written Expertise In workshops Reviews of current research
How Organisation is financed	Public money from government Sale of commercial products/services/reports to various target groups
Topics the organization focuses on	Research Development Economic aspects, market Societal aspects Human health Environmental health Risk assessment Regulations Food and feed Non-food consumer products Cosmetics REACH Occupational safety Medicines and medical technology

Stakeholder groups the organization provides information to	Industry Research Organizations Universities Governmental Bodies
How the information the organisation provides/work with is collected	Stakeholder Dialogues Data (from others) selected and commented by the experts Expert Workshops
How results/outputs are communicated	Publications on website (on subscription) Periodic and annual reports published by the OMNT (available on subscription) Seminars
Materials and tests undertaken	
Nanomaterials used	N/A
Tests used and endpoints studied	N/A
Outputs	
latest reports or other outputs of the organization	<p>1. Annual synthesis (available in French)</p> <ul style="list-style-type: none"> • Summary report 2008 • Summary report 2007 • Summary report 2006 <p>2. Periodic reports (available in French) from the 10 different thematics, including "Nanoparticles, nanomaterials, impacts on Health and Environment". Last report: September 2009</p> <p>3. Biannual reports from the European Observatory for NanoBiotechnologies (EON)</p> <ul style="list-style-type: none"> • Third Publication - May 2007 • Second Publication - September 2006 • First Publication - March 2006
Activities to be started in the coming year(s) and when results are expected	<p>- Besides the publications resulting from the regular activities (4 periodic reports per year in the 10 different sectors + 1 annual synthesis per sector), the OMNT will set up an international expert panel on "risks associated with nanoparticles". This panel will include experts from the European project ENPRA and the French OMNT experts from the thematic "Nanoparticles, nanomaterials, impacts on Health and Environment"</p> <p>→ Experts will meet every six months; (1st panel meeting on November 26th 2009)</p> <p>→ Biannual reports will be produced.</p> <p>- The OMNT annual seminar will be held in Paris, on February 2nd, 2010;</p> <p>- Periodic reports focusing on 3 novel thematics will be released (first publication in December 2009):</p> <ul style="list-style-type: none"> - Nanomedicine - Spintronics - Nanoelectronics <p>- Several thematic seminars will be organized by the OMNT and in collaboration with other projects/organisation.</p>
Additional comments	None

KIR nano	
Organisation Outline	
Name	Risks of Nanotechnology Knowledge and Information Centre (KIR nano)
Primary Aim	<ul style="list-style-type: none"> ▪ OBSERVING AND IDENTIFYING scientific advances in the field of nanotechnology and related risks to humans and the environment. National and international knowledge networks will be set up and maintained for this purpose. KIR nano gathers relevant information and issues regular reports on this to the central government; ▪ ADVISING the central government on the assessment of risks to humans and the environment; ▪ PARTICIPATING in national and international scientific fora, including in the area of standardisation and risk research. This task also underpins the other tasks. KIR nano will play a coordinating role in fora that are developing methods for the risk assessment of nanomaterials. In particular, the OECD Working Party for Manufactured Nanomaterials (WPMN) operates as a global centre for methodology development and harmonisation; ▪ INFORMING primarily government authorities and professionals on the risks of nanotechnology based on independent and reliable information. This will make the available knowledge accessible in the best way and can serve for the implementation of policy. KIR nano will further contribute to the dialogue with industry and society at large.
Contact Person/s	Maaïke van Zijverden
Web Address	http://www.rivm.nl/rvs/075_nanotechnologie/KIR_nano/
Organisation Type	National Project
WP5 Liaison Partner	RIVM
Organisation Structure	Invited experts No members, the organization involves only salaried staff
Professional Background of members	Experts are located/work both externally and as part of the organization
Research Areas	Life sciences: Risk Assessment, Human Toxicology, Ecotoxicology, Chemistry Risk assessment in the areas of occupational health and safety, medicines and medical applications, non-food consumer products, environment, food and feed
How members/experts contribute their input	Written Expertise In workshops Reviews of current research KIR nano integrates the results of research performed by the experts or others in order to advise the government and professionals on the risks of nanotechnology to man and the environment.
How Organisation is financed	Public money from government

Topics the organization focuses on	<p>Research Development Human health Environmental health Risk assessment Regulations Test guidelines Food and feed Non-food consumer products Cosmetics Pesticides Biocides REACH Occupational safety Medicines and medical technology KIR nano focuses on nanotechnology from a risk assessment prospective. Therefore, all aspects that are relevant for risk assessment are taken into account by KIR nano.</p>
Stakeholder groups the organization provides information to	<p>Politicians, Member States NGOs Industry Research Organizations Universities Trade Unions Sector organization KIR nano provides information to government authorities and professionals. It does not provide information to the general public, unless they are organised in e.g. consumers organisations.</p>
How the information the organisation provides/work with is collected	<p>Own research Use of data generated by others Expert Workshops Stakeholder Dialogues Own research is research performed by the experts contributing to KIR nano but the research is not performed within the project KIR nano itself.</p>
How results/outputs are communicated	<p>Publications on website Databases In the future, results could be published in journals/books, but this has not been done so far.</p>
Materials and tests undertaken	
Nanomaterials used	N/A
Tests used and endpoints studied	N/A
Outputs	
latest reports or other outputs of the organization	<p>1. Reports: RIVM. 2009. Nanotechnology in perspective - Risks to man and the environment. RIVM report 601785003, 138 pp. (English translation of the Dutch report (RIVM report 601785002) that was published in 2008.) RIVM. 2009. Nanotechnology in perspective: summary - Risks to man and the environment. RIVM report 601785004, 23 pp. (English translation of the Dutch report (RIVM report 601785001) that was published in 2008.)</p>

<p>Activities to be started in the coming year(s) and when results are expected</p>	<p>Foundation of a national expert panel for occupational health and safety. Foundation of a national expert panel for medical applications. News letter (in Dutch).</p> <p>Ongoing activities are participation in several national and international working groups and cooperating to their reports/opinions, e.g. national expert panel on food and non-food consumer products, development of a national strategic research agenda, FP7 projects EU Observatory NANO, NanoImpactNet, and Framing Nano, OECD WPMN, REACH CASG Nano, NEN/CEN/ISO, SCENIHR, EFSA, ILSI, SETAC, WHO/FAO, NanoMed Round Table, ETP Nanomedicine</p>
<p>Additional comments</p>	

NanoTRENDchart

Point of Contact: Vincent Mangematin
Website <http://www.nanotrendchart.com>
WP5 Liaison Partner: IoNano

Invitation to liaise distributed - no response from contact point prior to deadline. Liaison will be re-appraised for 2010.

PEN - NanoInventories

Point of Contact: Dr David Rejeski
Website: <http://www.nanotechproject.org/>
WP5 Liaison Partner: IoNANO

Project drawing to a close this year, withdrawn from process.

Nanotrust - Austria	
Organisation Outline	
Name	NanoTrust
Primary Aim	Enable national, but internationally coordinated and informed, risk governance of NT.
Contact Person/s	Michael Nentwich, André Gazsó, Myrtil Simkó, Ulrich Fiedeler
Web Address	www.nanotrust.ac.at
Organisation Type	National Project; NanoTrust is a public founded project which is performed by the Institute of Technology Assessment at the Austrian Academy of Sciences
WP5 Liaison Partner	RIVM
Organisation Structure	Elected experts; No members, the organization involves only salaried staff; <i>Three experts from different disciplinary field are co-workers on the project. Further experts are included by internal and external scientific board as well as by cooperation related to specific topics.</i>
Professional Background of members	Experts are located/work externally
Research Areas	Life sciences: - Risk Assessment - Human Toxicology Social Sciences Technology Assessment Physics Law Biology Philosophy STS
How members/experts contribute their input	Written Expertise In workshops Conduction of their own research within the organization Reviews of current research <i>The main expertise is delivered by the staff of the project. Other expertise is delivered by workshops, meetings and personal advices.</i>
How Organisation is financed	Public money from government
Topics the organization focuses on	Research Societal aspects Human health Environmental health Risk assessment Regulations <i>The selected topics (risk governance of NT) are the main objectives of the project. Further topics are science policy in NT, deliberation and communication activities related to NT, consumer products of NT, monitoring activities of risk governance of NT in the EU and in other countries.</i>

Stakeholder groups the organization provides information to	<p>Politicians, Member States NGOs Industry Research Organizations Universities General public Trade Unions Sector organization</p> <p><i>The information is mainly addressed to national policy makers and stakeholders.</i></p>
How the information the organisation provides/work with is collected	<p>Own research Expert Workshops Stakeholder Dialogues Use of data generated by others</p>
How results/outputs are communicated	<p>Publications in journals or books Publications on website Databases</p> <p><i>The collected, revised, analysed and summarised information is distributed by so called "NanoTrust-Dossiers", which are papers of four to six pages in plain language on a specific subject.</i></p>
Materials and tests undertaken	
Nanomaterials used	N/A
Tests used and endpoints studied	N/A
Outputs	
Latest reports or other outputs of the organization	<p>1. Dossiers: http://nanotrust.ac.at/nano.ita.en/dossiers.html</p> <p>2. Events: http://nanotrust.ac.at/nano.ita.en/veranstaltung.html</p> <p>3. All publications: http://www.oeaw.ac.at/cgi-user/ita/italit.pl?proj=c21&cmd=get</p> <p><i>NB. Most of the published output is in German</i></p>
activities to be started in the coming year(s) and when results are expected	<p>In the forthcoming period (2009/10), we aim to expand our information platform with additional Dossiers, FAQs and links, and plan to enlarge our literature database. Similar to the strategy of meetings 2007 and 2008, we will perform further workshops on specific issues. Furthermore, the NanoTrust members actively take part in the so called Austrian Action Plan for Nanotechnologies, which started at the end of 2008 and will be finalized in winter 2009/10. This action aims to coordinate the future activities (R&D, Governance) of nanotechnologies in Austria.</p>
Additional comments	<p>About the Project NanoTrust: The project is operating as an information and discussions forum for risk assessment and health-related subjects for the general public, the public administration and the nano research community. Hence, we are active in three main areas:</p> <ul style="list-style-type: none"> i) the continuous survey, analysis and summary on research on potential health and environmental risks, ii) the encouragement of discussions and debates between stakeholders about possible regulatory needs of nanotechnologies, and, iii) the identification of research gaps. <p>In the first two years of the project relevant topics have been</p>

	<p>identified regarding important issues and knowledge needs. Consequently, so far thirteen)so-called Dossiers have been published on biological, consumer related and regulatory topics, in which overviews and preliminary assessments of the state-of-the-art of specific subjects are provided. To encourage nano-governance and networking between stakeholders, multi-disciplinary workshops as well as a number of other presentations and contributions have been performed. A comprehensive web presentation documents our activities and outcomes, providing further information about nano-related activities at national and international level.</p>
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IV. Other Organisations

Other relevant organisations were identified, including NGO, cross-cutting initiatives, and European Technology Platforms, and the lead scientist contacted for each. The following chapter outlines the feedback received from each organisation on both its primary goals and aims for the coming months.

Friends of the Earth	
Organisation Outline	
Name	Friends of the Earth
Primary Aim	To ensure nanotechnology is developed using the precautionary principle, with appropriate mandatory regulation, labelling, no data/no market etc.
Contact Person/s	Dr Rye Senjen or Georgia Miller
Web Address	http://action.foe.org/content.jsp?content_KEY=2708&t=2007_Nanotech.dwt
Organisation Type	National & International Network
WP5 Liaison Partner	IoNANO
Organisation Structure	Anyone can join
Professional Background of members	Experts are part of the organization
Research Areas	Social Sciences Political Activists
How members/experts contribute their input	Written Expertise In workshops Conduction of their own research within the organization Reviews of current research Via Debate
How Organisation is financed	Support from NGOs Support from private donors
Topics the organization focuses on	Human health Environmental health Risk assessment Regulations Test guidelines Ethics Food and feed Cosmetics Pesticides Biocides Environmental remediation, drinking water purification
Stakeholder groups the organization provides information to	Politicians, Member States NGOs Universities General public Trade Unions
How the information the organisation provides/work with is collected	Own research Use of data generated by others Civil Society Dialogues Opinion Polls
How results/outputs are communicated	Publications on website Publications in journals or books

	Internal / private communications
Materials and tests undertaken	
Nanomaterials used	N/A
Tests used and endpoints studied	N/A
Outputs	
Latest reports or other outputs of the organization	<p>1. Reports</p> <ul style="list-style-type: none"> • "Nanomaterials, sunscreens and cosmetics: Small ingredients, big risks". Report by FoEA and FoEUS May 2006 • "Out of the laboratory and on to our plates: Nanotechnology in food and agriculture". Report by FoEA, FoEE and FoEUS March 2008 • "Out of the laboratory and on to our plates: Nanotechnology in food and agriculture - text only version". Report by FoEA, FoEE and FoEUS March 2008 • "Nano and biocidal silver ". Report by FoEA and FoEUS June 2009 • "Nano and biocidal silver - text only version". Report by FoEA and FoEUS June 2009 • "Summary - Out of the laboratory and on to our plates: Nanotechnology in food and agriculture" • "Resumen - del Laboratorio a Nuestros Platos - Nanotecnología en la Agricultura & Alimentación" (Spanish summary) • "Résumé - Du labo à nos assiettes : Les nanotechnologies dans l'alimentation et l'agriculture" (French summary) <p>2. Policy</p> <ul style="list-style-type: none"> • FoEA Nanotechnology Policy May 2007 <p>3. Issue summaries (brief overviews)</p> <ul style="list-style-type: none"> • Introduction to nano - what is it, and why is it a problem? • Nanotoxicity and health • Size matters - standardization discussion paper • Nano and the workplace - the next asbestos? • The disruptive social impacts of nanotechnology • Nanotechnology and the environment: Challenging the nano industry "green wash" • Cosmetics, nanotoxicity and skin penetration (update following our May report) • "La nanotecnología en la agricultura y en la producción alimentaria (Nanotechnology in agriculture and food production - Spanish) • "Nanotechnology in agriculture and food production - English • <p>4. Background papers (detailed reports)</p> <ul style="list-style-type: none"> • Introduction to nano - what is it, and why is it a problem? • Nanosilver - a threat to soil, water and human health? • Nanotoxicity and health • Nano and the workplace - the next asbestos? • Mounting evidence that carbon nanotubes may be the new asbestos - August 2008 <p>5. Articles and chapters</p> <ul style="list-style-type: none"> • Contemplating the social implications of a nanotechnology "revolution". Georgia Miller 2008. This article was originally published as: Chapter 19 In Eds. E. Fisher, C. Selin and J. Wetmore "Yearbook of Nanotechnology in Society, Volume 1:

	<p>Presenting Futures". Springer, pp. 215-225</p> <ul style="list-style-type: none"> • Nanotechnology and the public interest: Repeating the mistakes of GM foods? Georgia Miller 2008 • Nanotechnology - the new threat to food - Georgia Miller and Scott Kinnear - May 2007 • Nanotechnology enters the global food chain - Georgia Miller - February 2007 • Is nanotechnology rushing into a repeat of the biotechnology backlash? - Georgia Miller - Sept 2006 • When small isn't beautiful - Gyorgy Scrinis - June/July 2006 • Questioning Nanotechnology - John Hepburn - Oct 2005 • Mega fear over something nano - Gyorgy Scrinis - December 2004 • Towards a Nano Future? - Gyorgy Scrinis - Jan 2004 <p>6. Submissions and other publications</p> <ul style="list-style-type: none"> • FoEA submission to the Review of the National Innovation System April 2008 • Supplementary detail to FoEA submission to the Review of the National Innovation System May 2008 • FoEA submission to NSW Parliamentary Inquiry into Nanotechnology March 2008 • QoN - Supplementary information provided by FoEA to NSW Parliamentary Inquiry into Nanotechnology May 2008 • FoE analysis of National Nanotechnology Strategy Taskforce's report "Options for a National Nanotechnology Strategy" September 2006 [Click here for the Taskforce report] • FoEA submission to Nanotechnology Taskforce May 2006 [Click here for the Taskforce discussion paper] • Joint submission to Nanotechnology Taskforce (Australian Consumers Association, Biological Farmers Association, Friends of the Earth, GeneEthics, Public Health Association of Australia and the SEARCH Foundation) May 2006 • FoEA submission to the Senate Inquiry into Workplace Exposure to Toxic Dust (including nanoparticles) September 2005
Activities to be started in the coming year(s) and when results are expected	Confidential/Classified.
Additional comments	None

Greenpeace

Point of Contact: Dr Doug Paw
Website: <http://www.greenpeace.org.uk/tags/nanotechnology>
WP5 Liaison Partner: IoNANO

Invitation to liaise distributed - no response from contact point prior to deadline. Liaison will be re-appraised for 2010.

Responsible Nano Forum	
Organisation Outline	
Name	Responsible Nano Forum
Primary Aim	Our purpose is to stimulate all organisations involved to play their part in realising the benefits and minimising the risks of nanotechnologies and ensure that the public has a real say in how they develop.
Contact Person/s	Hilary Sutcliffe
Web Address	www.responsiblenanoforum.org
Organisation Type	National Network
WP5 Liaison Partner	IoNANO
Organisation Structure	Invited experts
Professional Background of members	Experts are located/work externally
Research Areas	various we are multi stakeholder
How members/experts contribute their input	Written Expertise In workshops Various other methods of input
How Organisation is financed	Public money from government
Topics the organization focuses on	Societal aspects Ethics Food and feed Sustainability Various others
Stakeholder groups the organization provides information to	Politicians, Member States NGOs Industry Research Organizations Universities General public Trade Unions Sector organization
How the information the organisation provides/work with is collected	Publications on website Publications in journals or books Other
How results/outputs are communicated	Publications on website Publications in journals or books
Materials and tests undertaken	
Nanomaterials used	N/A
Tests used and endpoints studied	N/A
Outputs	
latest reports or other outputs of the organization	<p>1. Reports</p> <ul style="list-style-type: none"> Responsible Nano Forum - Submission to the House of Lords Science and Technology Select Committee on Nanotechnologies and Food Responsible Nano Forum - A beacon or just a landmark? Reflections on the 2004 Royal Society/Royal Academy of Engineering Report: Nanoscience and nanotechnologies: opportunities and uncertainties, July 2009 Hilary Sutcliffe & Simon Hogson - ‘An uncertain

	business: the technical, social and commercial challenges presented by nanotechnology '. Prepared for the Royal Society, Insight Investment and the Nanotechnology Industries Association, October 2006.
activities to be started in the coming year(s) and when results are expected	To be confirmed
Additional comments	None given

Dr Hadwen Trust	
Organisation Outline	
Name	Dr Hadwen Trust
Primary Aim	The Dr Hadwen Trust is the UK's leading medical research charity (Registered charity number 261096) that funds and promotes exclusively non-animal techniques to replace animal experiments. Established in 1970, the work undertaken by the Dr Hadwen Trust benefits humans with the development of more relevant and reliable science whilst also benefiting laboratory animals.
Contact Person/s	Dr Gemma Buckland
Web Address	http://www.drhadwentrust.org.uk/
Organisation Type	Non-governmental organisation
WP5 Liaison Partner	IOM
Organisation Structure	No members, the organization involves only salaried staff
Professional Background of members	Experts are part of the organization
Research Areas	Life Sciences: Human Toxicology
How members/experts contribute their input	Written Expertise In workshops Conduction of their own research within the organization Reviews of current research
How Organisation is financed	Support from public
Topics the organization focuses on	Research Human health Risk assessment Regulations Test guidelines Ethics Cosmetics Medicines and medical technology
Stakeholder groups the organization provides information to	Politicians, Member States NGOs Industry Research Organizations General public
How the information the organisation provides/work with is collected	Own research Use of data generated by others Expert Workshops Stakeholder Dialogues
How results/outputs are communicated	Publications on website Publications in journals or books
Materials and tests undertaken	

Nanomaterials used	N/A
Tests used and endpoints studied	N/A
Outputs	
latest reports or other outputs of the organization	Submissions to House of Lords, DG SANCO, EU Commission on areas relating to the suitability of current test methods to assess the human safety of nanomaterials. Involvement as an observer in the EU REACH Nano subgroup on the use of nanomaterials and the effects on human health and safety. Submissions to the OECD as members of invited experts ICAPO on the test guidelines recommended and alternative testing strategy developments for nanomaterial testing.
activities to be started in the coming year(s) and when results are expected	Further comments, submissions and activities as stakeholders in OECD, EU and UK specialist committees. Our work is often quite reactive to various calls from external bodies so it depends on the activities launched.
Additional comments	None

NANOTOX

Point of Contact: Dr Linsey Marr

Website: <http://www.nsf.gov/awardsearch/showAward.do?AwardNumber=0537117>

WP5 Liaison Partner: IOM

Liaison partner declined involvement - the NANOTOX project is reaching completion.

European Technology Platform: Industry

Point of Contact: Dr Frederic Schuster

Website: http://cordis.europa.eu/technology-platforms/home_en.html

WP5 Liaison Partner: CEA

Invitation to liaise distributed. Liaison partner wishes to discuss the process further, and participation will be included within the month 24 report.

European Technology Platform: NanoMedicine

Point of Contact: Dr. Sebastian Lange

Website: <http://www.etp-nanomedicine.eu/public/about/>

WP5 Liaison Partner: RIVM

Invitation to liaise re-distributed late after initial approach of incorrect point of contact. Liaison will be re-appraised for 2010.