

# NIA

Nanotechnology  
Industries Association

## *An Industries' Perspective on 'Nano'-Definitions*

*Dr Denis Koltsov*

ICSU CODATA workshop  
23 February 2012, Paris, France

# ***Presentation Overview***

- Introduction
- NIA - Who we are
- What are the challenges of too many (or too few) 'nano'-definitions
- NIA Initiatives - How we help the nanotech community

# ***NIA - Who we are***

***... the sector-independent, responsible voice for the industrial nanotechnologies supply chains;***

***... it proactively supports the ongoing innovation and commercialisation of the next generation of technologies and promotes their safe and reliable advancement.***

# NIA Membership

*Manufacture of  
(Nanomaterials &)  
nanoenabled Products*

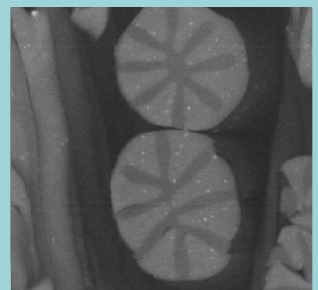
*Trade & Manufacture of  
intermediate  
nanoenabled Products*

*Retail of  
nanoenabled Products*

*Instrumentation & Services:  
Characterisation , Analysis, Detection*



[source: Intrisig]



[source: RAS Materials]



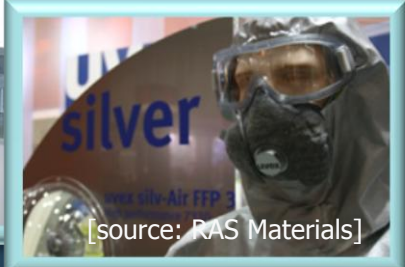
[source: Naneum]



[source: Oxonica]



[source: Beneq]



[source: RAS Materials]



[source: BASF]



[source: UMICORE]

*Associated Support Services (Insurance, Legal Representation, etc.)*



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# *What are the challenges?*

- Regulatory developments
  - EC Definition of nanomaterials
  - French mandatory reporting Decree
- Standardisation work
  - ISO / CEN / ASTM / etc
- Business to business communication
  - Characterisation/communication/labelling
- Public perception
  - Clear public communication/labelling
- Health and Safety of nanomaterials



# ***NIA Initiatives***

- Member information
  - Weekly member newsletter
- Consultations
  - ISO/CEN consultation
  - Regional regulatory consultations
  - OECD WPMN and WPN
- Business Communication
- PPP (Global-NanoMaPPP, PROSPECT, RefNanoCLAYM) OECD sponsorship programme

# NIA Activities – Global Representation

**NIA**  
Nanotechnology Industries Association

THE VOICE OF THE NANOTECHNOLOGY INDUSTRIES

- Home
- Standards & Norms**
- Global Representation

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- NIA Publications**

**Statements & Opinions**

**November 2010:**  
NIA Position on nano-specific Provisions in the Revision of the *Novel Foods Regulation* ((EC) No 258/97)

**November 2009:**  
NIA joins SEMI Europe Comments on the European Commission's

**Global Representation**

**NIA Members** are represented on a number of **global fora and committees:**

**Policy & Regulation:**



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## Proactive policy-informing safety research:

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# NIA

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Industries Association

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Responsible Nano  
Code

Technology Foresight

Standards & Norms

International  
Standards & Norms

Regional / Federal  
Standards & Norms

National Standards  
& Norms

NIA Publications

'Members Only' –  
Area

## NIA Projects

### **SAFETY ASSESSMENT:**

**RIP-oNs** – REACH Implementation Plans on Nanomaterials: 'Scientific and technical Support for Nanomaterials'

**NANEX** – Development of Exposure Scenarios for Manufactured Nanomaterials

**PROSPECT** – Ecotoxicology Test Protocols for Representative Nanomaterials in Support of the OECD Sponsorship Programme

**CNT – Life-Cycle Analysis** – Research into the likelihood and possible pathway of human exposure *via* inhalation arising throughout the **lifecycle** of a selection of commercially available **articles containing carbon nanotubes**

**Nanolmaging** – Detection of Engineered Nanomaterials in the Environment: Available techniques and potential for applied techniques from nanomedicine and nanotoxicology

**RefNanoCLAYM** – Lead-Sponsorship, Characterisation and Testing of Reference Nanoclay Materials within the OECD Sponsorship Programme

**Global-NanoMaPPP** – Global PPP for the Integrated Measurement and Testing of Reference NanoMaterials in support of the OECD WPMN Sponsorship Programme

## Our Mission

*The NIA stands for:*

- a framework of shared principles for the safe, sustainable and socially supportive development and use of nanotechnologies,
- a publically and regulatory supportive environment for the continuing advancement and establishment of nanotechnology innovation.



## Get involved today

If you would like to find out more about becoming involved with the Nanotechnology Industries Association, please contact us at [enquiries@nanotechia.org](mailto:enquiries@nanotechia.org).

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# NIA & the OECD WPMN Sponsorship Programme

	Lead sponsor(s)	Co-sponsor(s)	Contributor
<b>Fullerenes(C60)</b>	Japan, US		Denmark, China
<b>SWCNTs</b>	Japan, US	BIAC (NIA), EC?	Germany, Canada, France, China, EC
<b>MWCNTs</b>	Japan, US	Korea, BIAC (NIA), EC?	Germany, Canada, France, China, EC, BIAC(NIA)
<b>Nano-Silver</b>	US, Korea	Germany, Canada, Australia, Nordic Council of Ministers	BIAC (NIA), EC, France, China, Netherland
<b>Iron nanoparticles</b>	China	BIAC	Canada, US, Nordic Council of Ministers
<b>Titanium dioxide</b>	France, Germany	Austria, Canada, Spain, BIAC, Korea, US, EC	China, Denmark, Japan, UK, BIAC(NIA)
<b>Aluminium oxide</b>			Germany , US, Japan
<b>Cerium oxide</b>	UK/BIAC(NIA), US(EPA)	Australia, Spain	Denmark, Netherlands, Germany, EC, Switzerland, Japan
<b>Zinc oxide</b>	UK/BIAC(NIA)	BIAC(CEFIC), Australia, US(FDA), Spain	Denmark, Germany, Canada, Japan
<b>Silicon dioxide</b>	France, EC	Belgium, BIAC(CEFIC), Korea	Denmark, Japan
<b>Dendrimers</b>		Spain, US	
<b>Nanoclays</b>	BIAC (NIA)	EC	US, Denmark, EC
<b>Nano-Gold</b>	South Africa	EC, BIAC (NIA)	

## NIA Projects:

### PROSPEcT Project:

**Industrial contribution:** £1840840  
**Government contribution:** £1840767  
**Total:** £3681607  
**Start date:** 1<sup>st</sup> January 2009  
**Duration:** 3 years (36 months)

### RefNanoCLAYM Project:

**Industry contribution:** ~ EURO 245000  
**Start date:** 1<sup>st</sup> September 2010  
**Duration:** 1 Year (provisional)

### Global-NanoMaPPP:

**current conf. contributions:** EURO 4.5 Million  
**Start date:** 15<sup>th</sup> February 2012  
**Duration:** 2 Year s

BIAC: Business and Industry Advisory Committee to the OECD



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***Thank you!***