knowledge

Nahos

International initiatives to promote **Spanish Nanotechnology Industry Phantoms Foundation**

Antonio Correia

excellence

expertise

egunanotechnology

S ... + 2Na + 2CI

innovation

Madrid – November 11, 2011 / ICEX



Nanotechnology

Nanobusiness

Nanoelectronics

Nanomaterials

Nanobiotechnology

International initiatives to promote Spanish Nanotechnology Industry

OUTLINE

- 1. Phantoms Foundation: CV
- 2. ICEX Nanotechnology Plan (activities, results, future calls)
- 3. Imaginenano2011
- 4. Projects/Events/Networks
- 5. Other dissemination activities



Networking

Dissemination

Training

Nanoscience

Nanotechnology

Nanobusiness

Nanoelectronics

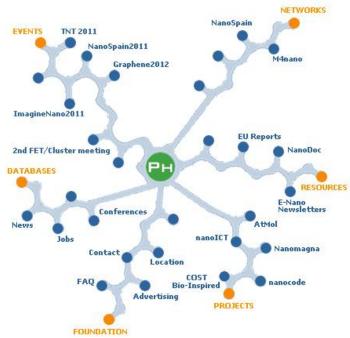
Nanomaterials

Nanobiotechnology

- Private non-profit organisation
- Founded in November 2002
- Location: Madrid (Spain)
- WEB site: www.phantomsnet.net
- Staff: Dr. Antonio Correia (President) / Dr. Maite Fernandez / Jose-Luis Roldan / Joaquin Ramon Laca / Paloma Garcia Escorial / Conchi Narros / Carmen Chacon / Viviana Estevao
- Focus activities on Nanoscience & Nanotechnology
- High level management profile to National and European scientific projects
- □ Key actor in:
- Structuring and fostering European Excellence and enhancing collaborations in these fields
- Integrating the Spanish "Science Technology Company Society" system in other countries

CURRENT ACTIVITIES

- □ Project Management (European Commission, National, etc.)
- Scientific Network Coordination (NanoSpain, M4nano Initiative)
- □ Scientific Conference Organisation (TNT conference series, Imaginenano)
- □ Support to Conference Organization (WEB site, management)
- Promotion of educational activities (schools, etc.)
- Scientific Dissemination (Newsletters, reports, articles in journals, roadmaps)
- Management of activities fostering relationships with other markets/countries



Dissemination

Management

Networking

Training

Nanoscience

Nanotechnology

Nanobusiness

Nanoelectronics

Nanomaterials

Nanobiotechnology

Management



Training

Nanoscience

Nanotechnology

Nanobusiness

Nanoelectronics

Nanomaterials

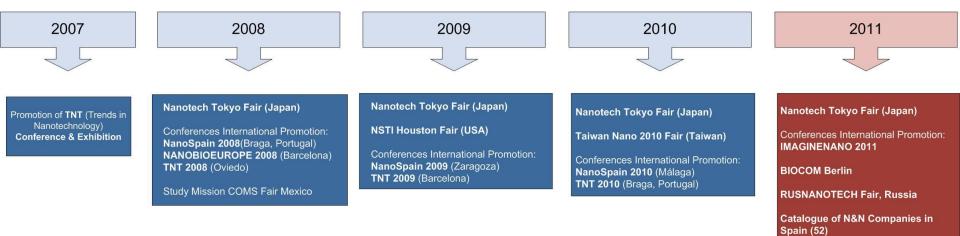
Nanobiotechnology

Since 2007, Phantoms Foundation is the **coordinator of the Spanish Nanotechnology Plan** funded by ICEX (Spanish Institute for Foreign Trade), as an initiative under the program **España, Technology for Life**, to enhance the promotion in foreign markets of Spain's more Innovative and leading industrial technologies and products

- Represent the Scientific, Technological and Innovative agents of the country as a whole.
- □ Foster relationships with other markets/countries.
- □ Promote country culture of innovation.
- Better integrate the Spanish "Science Technology Company Society" system in other countries.
- Generate and develop scientific and technological knowledge.
- Improve competitiveness and contribute to the economic and social development of Spain.



Activities performed since 2007 by the Phantoms Foundation under **the Spanish Nanotechnology Plan** funded by ICEX (Spanish Institute for Foreign Trade). More than 60 companies, technological centers, nanotechnology platforms or nanocenters participated in these activities.





International Nanotechnology **Exhibition and Conference** Tokyo (Japan)

2008 **Spain Pavilion** 12 Companies / Technologicals Centers

2009

Spain Pavilion 22 Companies / Technologicals Centers

Negotiation to develop a cooperation Spain - Japan, between MICINN and Japan Science and Technology Agency on nanotechnology and materials

2010

Spain Pavilion 14 Companies / Technologicals Centers

2011

Spain Area 11 Companies / Technologicals Centers

Spain Area distinguished with the "Special Award"

ICEX Nanotechnology Plan - nano tech Japan





nano tech 2008

nano tech 2009



ICEX Nanotechnology Plan - nano tech Japan

Internationalization Results

AVANZARE

First export non EU, USA countries. Clients in Mexico, Canada, Korea and Japan and contacts in other countries. Export turnover 350.000 - 400.000 USD, potentialy 10 times higher Opening a new plant exclusively to attend non EU exports.



Spain Pavilion 2010

LUREDERRA / TECNAN

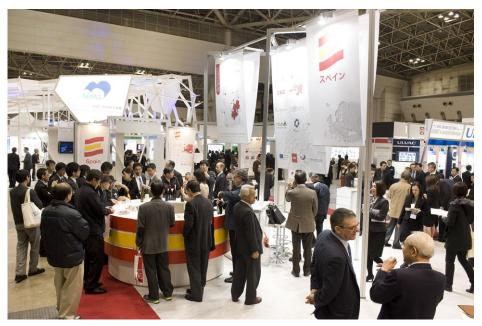
Specific Agreenment A. R. Brown Co Ltd. and TECNAN/Lurederra for the production of sinthetic nanoparticles.

Neoker

Neoker products were introduced in the Japanese market among other advanced materials. Local distributor in Japan.

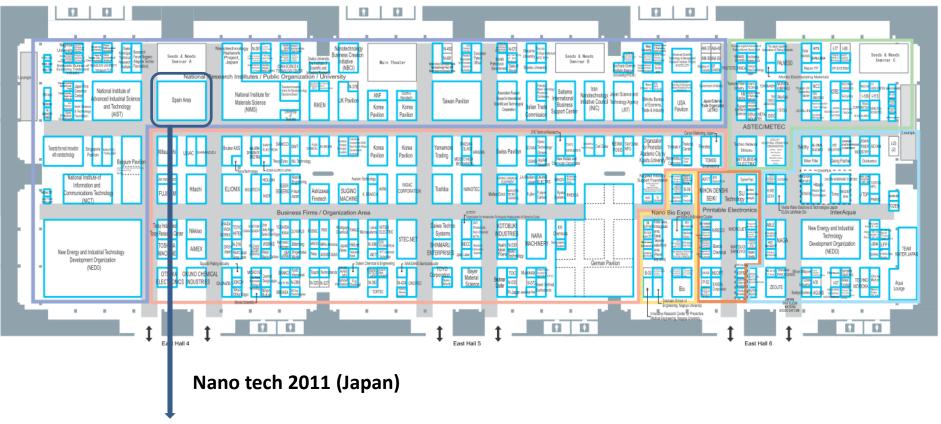
NanoBiomatters

Nanoclay based additives for performance improvment in polymers, resins and bioplastics were introduced in the Japanese and Taiwanese markets. Local distributor in Japan.



Spain Area 2011





Spain Area among the top 3 biggest pavilions

ICEX Nanotechnology Plan - nano tech Japan



The Spanish Area awarded at nano tech 2011

The Spain Area was distinguished with the "Special Award". The reason of the award, as mentioned during the nano tech award 2011 ceremony:

- Eleven organisations, including seven private companies and national research institutions, exhibiting in the Area
- □ Four organisations already have offices for distribution
- State of the art of nanotechnology development in Spain, actively promoted for commercialisation in Japan

ICEX Nanotechnology Plan – Other Fairs



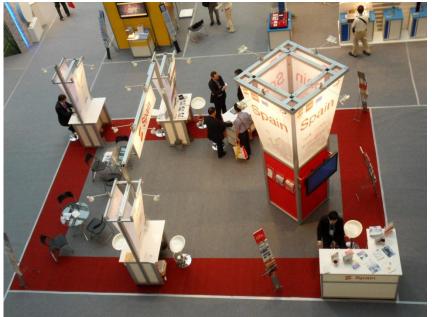
May 3 - 7, 2009 • Houston, TX George R. Brown Convention Center











ICEX Nanotechnology Plan



- Over 8000 persons from 50 countries attended Rusnanotech 2010 and more than 350 Russian and foreign companies presented their innovations.



- Dual year Spain-Russia 2011
- □ Spain Stand 100 m²
- One to one meetings
- Visits to Russian Institutions/Companies of interest

Participants

ICEX Nanotechnology Plan





Rusnanotech

NANOTECHNOLOGY INTERNATIONAL FORUM MOSCOW, OCTOBER 26-28 2011









σ

0

0

N

M

ICEX Nanotechnology Plan - nano tech Japan 2012



The 11th International Nanotechnology Exhibition & Conference **nanotech 2012** Date&Time : 2012.2.15(Wed.) - 17(Fri.)

V e n u e: Tokyo Big Sight East Exhibition Hall 4, 5, 6, & Conference Tower Organized by : nano tech executive committee



- Around	d 47000	persons at	ttended	nanotech	Japan	2011
----------	---------	------------	---------	----------	-------	------

- **G** 5th participation of the Spain Area
- □ Spain Stand 135 m²
- □ ICEX funding available (travel grant: 1660 Euros per institution)
- Registration fee: 2500 Euros per institution
- One to one meetings (to be confirmed)
- Call launched deadline: December 01, 2011
- Contact person: Maite Fernandez (maite@phantomsnet.net)

Participants (tentative)







nanotec

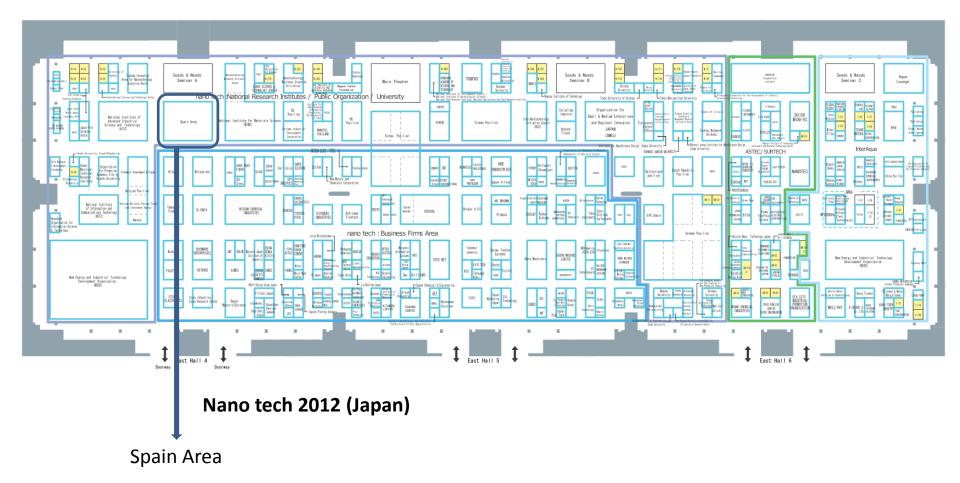


Number of Visitors					
Date	Weather	Visitors	Total		
Feb, 16 (Wed)	Sunny	13,604	-		
Feb, 17 (Thu) Cloudy		15,402	29,006		
Feb, 18 (Fri) Rainy to Cloudy		17,496	46,502		

Number of Exhibitors						
Domestic	Overseas	Total				
448 Exhibitors	190 Exhibitors	638 Exhibitors				
549 Booths	205 Booths	754 Booths				

Exhibitors from overseas (20 countries / areas) Australia, Belgium, Canada, China, Denmark, France, Germany, India, Iran, Italy, Russia, Saudi-Arabia, Singapore, Switzerland, Spain, South Korea, Taiwan, Thailand, UK, USA

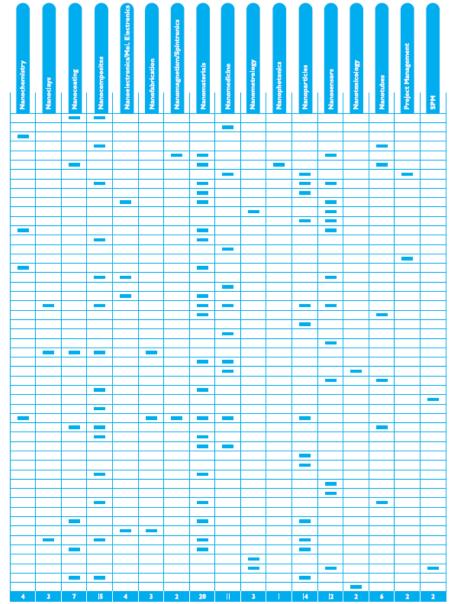
ICEX Nanotechnology Plan - nano tech Japan 2012



This catalogue, compiled by the Phantoms Foundation provides a general overview of the Nanotechnology companies in Spain (**78** – **version 2.0**) and in particular the importance of this market research, product development, etc. Note: only those contacted companies which provided their details are listed.

COMPANIES	Carbon nanofibres	Drug delivery	Encapsulation	Energy	Graphene	Manufacturing	Microsensors	Microwires	Model ling/Simulation/Software	NanoBio
ACCIONA INFRAESTRUCTURA										
ACTIVERY BIOTECH S. L.										
AGROINDUSTRIAL KIMITEC										
AIRBUS OPERATIONS S. L.										
ARAGONESA DE COMPONENETES PASIVOS S. A.										
ASOCIACION DE LA INDUSTRIA NAVARRA										
ATOS ORIGIN										
AVANZARE INNOVACION TECNOLOGICA S. L.										
BIOKER RESEARCH S. L.										
CIDETE INGENIEROS S. L.										
DATAPIXEL S. L.						_			-	
DOLMAR INNOVA S. L.										
DROPSENS S. L.										
DYNASOL ELASTOMEROS										
ENDOR NANOTECHNOLOG										
FUNDACION PHANTOMS										
GRAPHENEA										
GRUPO ANTOLIN-INGENIERIA S. A.	_									
INGENIATRICS TECNOLOGIAS S. L.										
NNOVATEC SENSOR ZACION Y COMUNICACIÓN S. L.										
INTERQUIMICA					_					_
LABORATORIOS ALPHASIP								-		
LABORATORIOS ARGENOL S. L.										
LAIMAT SOLUCIONES CIENTIFICO TECNICAS		-	_				_			
MECWINS S. L.										_
NANOBIOMATTERS INDUSTRIES S. L.										
NANOGAP SUB-NM-POWDER S. A.										
NANOINMUNOTECH S. L.										
NANOINNOVA TECHNOLOGIES S. L.					-					
NANOROJA S. L.										
NANOTEC ELECTRONICA S. L.										
NANOTECNOLOGIA SPAIN S. L.										
NANOTEX (SOLUTEX GROUP)										
NANOZAR S. L.										
NEOKER S. L.										
NLAB DRUG DELIVERY										
OPERON S. A.										
RAMEN S. A.										
REPSOL YPF (DIRECCION DE TECNOLOGIA)				-						
SENSIA S. L.										
SGENIA S. L.										
SINATEC S. L.										
TAMAG BERICA S. L.										
TECN. NAVARRA DE NANOPRODUCTOS S. L. (TECNAN)										
THREELLOP NANOTECHNOLOGY									_	
TOLSA S. A.										
TORRECID S. A.										
TRIMEK S. A.						_				
UNIMETRIK S. A.										
YFLOW SISTEMAS Y DESARROLLOS S. L.										
ZF BIOLABS										
TOTAL		6	3	3	5	5	2	2	4	4

ICEX Nanotechnology Plan Catalogue of Nano companies in Spain



ICEX Nanotechnology Plan Catalogue of Nano companies in Spain

% Activity in Nanoscience and Nanotechnology in R&D



TECNOLOGÍA NAVARRA DE NANOPRODUCTOS S. L. (TECNAN)

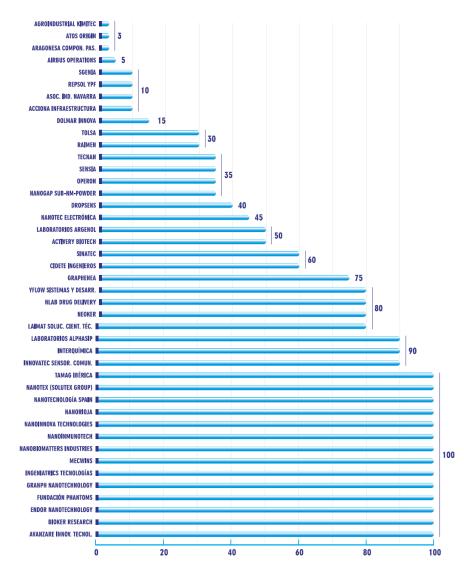


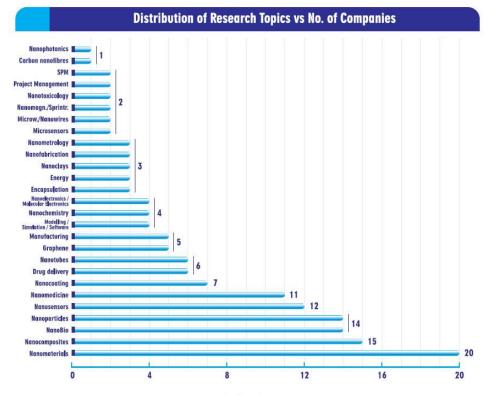
Address	Área Induntrial "Perguita" A1 - 31210 Los Arcos - Navarra (Spain)			
WEB site	www.tecnan-nanomat.es			
Contact person	Germán Medina			
e-mail	german.medina@tecnan-nanomat.es			
Phone	+34 948 640 318			
Main Research Areas	Nanocoatings • Nanomaterials • Nanoparticles			
Created in	2008			
No. of employees in R&D	3			
% Nanoscience and Nanotechnology (R&D)	35			



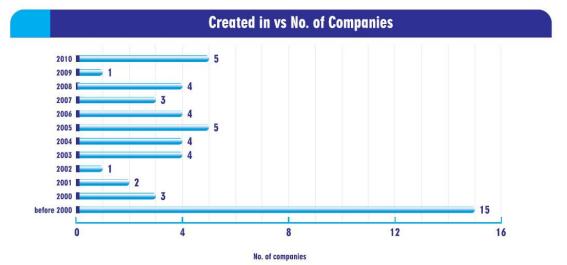
THREELLOP NANOTECHNOLOGY

Address	C/ Puig,10 2B - 46980 Paterna - Valencia (Spain)		
WEB site	www.threellop.com		
Contact person	José Daniel Llopis		
e-mail	jdaniel.llopis@threellop.com		
Main Research Areas	NanoBio • Modelling/Simulation/Software		
Created in	2007		
No. of employees in R&D	4		
% Nanoscience and Nanotechnology (R&D)	100		
No. of Patents	20		





No. of companies



ICEX Nanotechnology Plan Catalogue of Nano companies in Spain



COLOR ESMALT, S.A.



Applied Mass Spectrametry Laboratory S.L.

ICEX Nanotechnology Plan Catalogue of Nano companies in Spain

Updated catalogue (78 companies listed) published in November 2011.

□ Contact person: Carmen Chacon (carmen@phantomsnet.net)

□ WEB site of Nano companies in Spain under construction (in collaboration with ICEX)



Version 2

Version 1

Full catalogue available for download (pdf format) at: www.phantomsnet.net

science • industry • society

Bringing together Nanoscience and Nanotechnology WWW.imaginenano.com













SCIENCE: 6 conferences in parallel



- More than 300 speakers, including:
- Two Nobel Prize winners in Physics: Kostya Novoselov (2010) and Albert Fert (2007)
- Two Prince of Asturias Scientific Research Prize: Pedro Miguel Echenique (1998) and Sumio Iijima (2008)
- 63 Invited Speakers
- 44 Keynotes
- 600 posters
- Nearly 70 grants awarded

INDUSTRY: Industrial Forum + Brokerage events + Exhibition





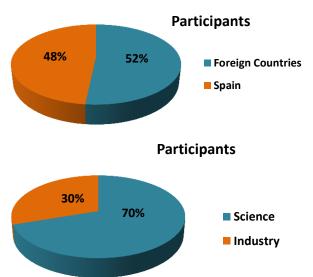
🖛 🔲 Others 81 Country No. participants Argentina 5 Mexico 11 3 Australia 6 Austria Portugal 12 Bolivia 1 Brazil Czech Republic 12 1 Canada 7 China 12 Chile 1 2 Croatia Poland 13 Greece 5 Ireland 5 🖛 🔳 Denmark 13 2 Israel 2 Norway 🚍 Sweden 14 5 Romania Finland 18 \$7 Saudi Arabia 3 Serbia 2 🔁 🔲 Italy 20 Singapore 6 Slovakia 1 Belgium 24 Swizerland 9 5 🖛 🗌 Korea 28 Taiwan 2 Thailand 🖛 📃 Netherlands 31 Turkey 3 Ukraine 3 📕 Japan 35 United Arab 2 Emirates 🖬 📕 Russia 53 Total 81 🛏 USA 61 🗢 🗌 Germany 92 France 144 🖙 📕 Spain 694 100 200 300 400 500 600 700 800

IMAGINENANO 2011 Participants (1434) / Countries (42)

- □ Nearly 1500 Participants from 42 countries
- □ 48% from Spain and 52% from foreign countries
- **D** Top six foreign participants: France, Germany, United Kingdom, United States, Russia and Japan





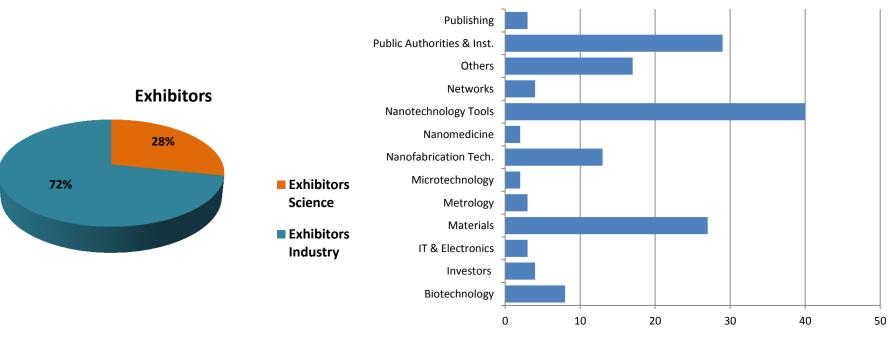


From 1434 participants 434 were exhibitors

Imaginenano

Imaginenano - INDUSTRY

Exhibitors - Sectors







IMAGINENAND



MINISTRY OF EDUCATION AND SCIENCE OF THE RUSSIAN FEDERATION





Imaginenano - INDUSTRY

Exhibition

90 Booths160 Companies/InstitutionsRepresented Country/Region Pavilions: 5



Brokerage Events (One to One Meetings)

- Enterprise Europe Network (Nanoscience & Micro-Nanotechnology)
- 101 persons registered
- 88 Institutions
- CIBER-BBN (Biomaterials and Nanostructures in Biomedicine)





Business Support on Your Doorstep

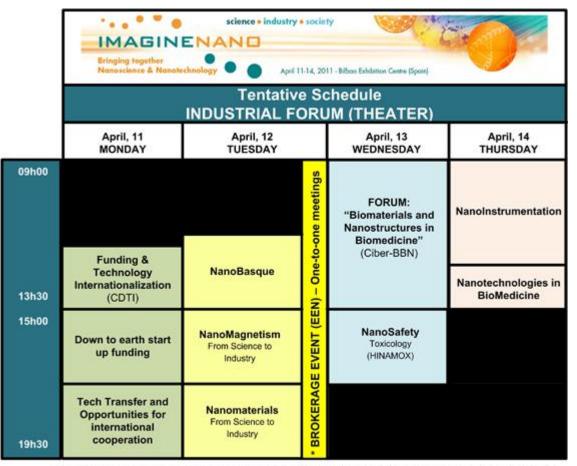


Industrial	Forum
------------	-------

- -Funding
- -Tech Transfer
- -Nanomagnetism
- -Nanomaterials
- -Nanosafety
- -NanoInstrumentation

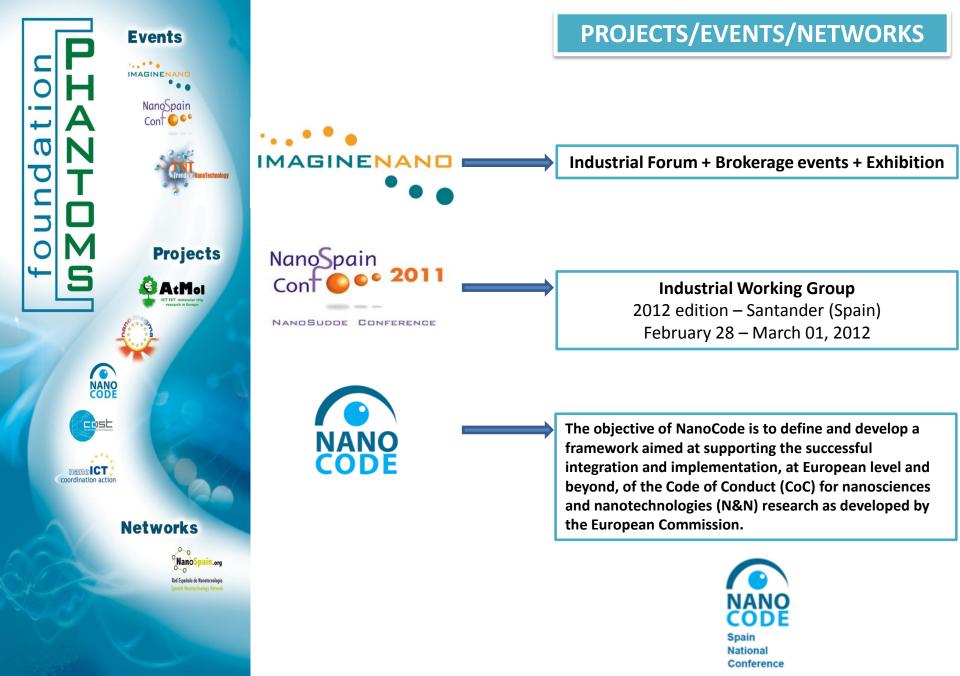
Short facts

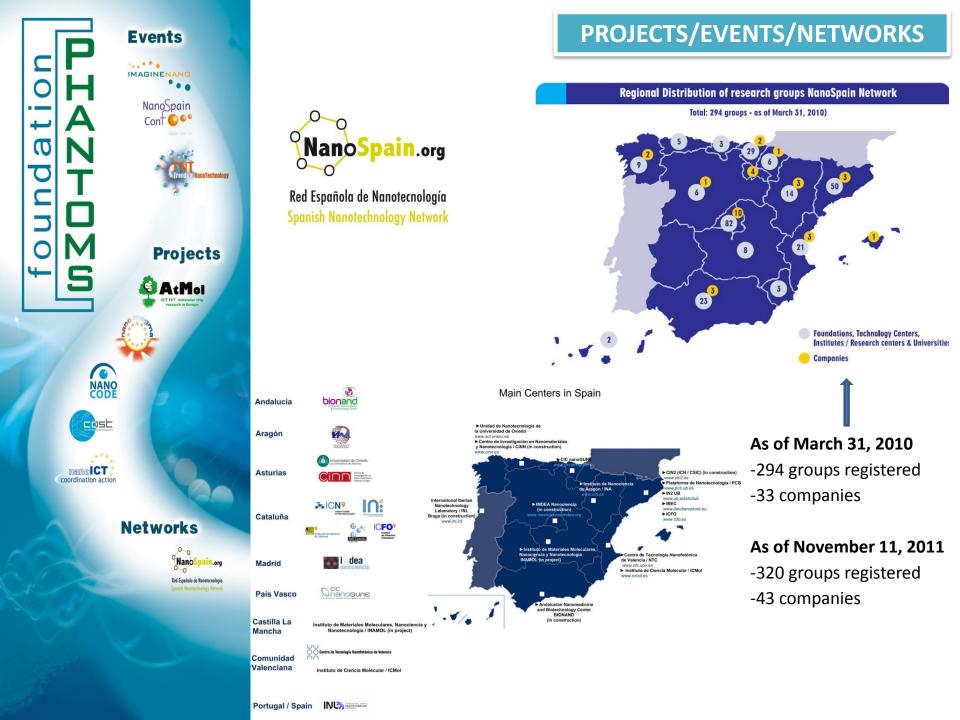
-10 sessions -40 speakers



* The Brokerage event will be organized in collaboration with EEN (Enterprise Europe Network) during all day.









Management

Networking

Dissemination

Training

Nanoscience

Nanotechnology

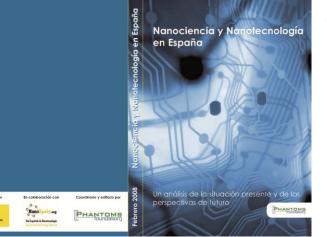
Nanobusiness

Nanoelectronics

Nanomaterials

Nanobiotechnology





OTHER DISSEMINATION ACTIVITIES

Short facts

- -1500 printed copies
- -pdf available for download (free of charge)
- -Distributed to around 800 groups in Europe

-Distributed at major events such as Imaginenano

Short facts

- -5000 printed copies
- -pdf available for download (free of charge)
- -Distributed at major events
- -2008 edition
- -Spanish

OTHER DISSEMINATION ACTIVITIES



Management

Networking

Dissemination

Training

пяпосієпсія ч

NANOTECNOLOGIA

Nanoscience

Nanotechnology

Nanobusiness

Nanoelectronics

Nanomaterials

Nanobiotechnology



Short facts (2010 / 2011 edition)
-1500 printed copies
-pdf available for download (free of charge)
-Distributed at major events
-English

Universidades que tienen actividad I+D en Nanociencia y Nanotecnología Empresas que tienen actividad I+D en Nanociencia y Nanotecnología

Centros Tecnológicos que tienen actividad I+D en Nanociencia y Nanotecnología Universidades que han presentado interés en Nanociencia y Nanotecnología

Empresas que han presentado interés en Nanociencia y Nanotecnología

Centro Tecnológico que ha presentado interés en Nanociencia y Nanotecnología

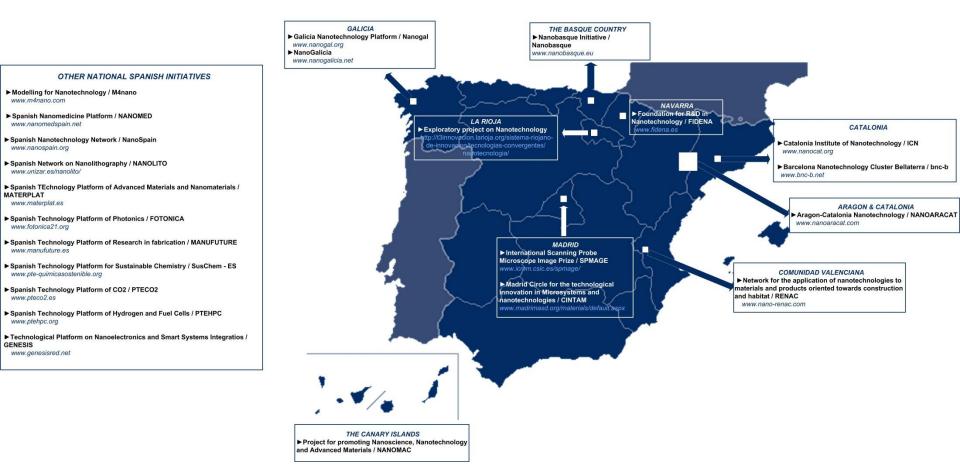
-GRLICIA 2010-

pdf available for download (free of charge)

ALICIA 20

 \bigcirc

Other initiatives (networks, platforms, regional programmes, etc) related with nanotechnology promotion



knowledge

www.phantomsnet.net

expertise

Phantoms Foundation

Conce ananotechnologi

1.5 . + 2Na + 2CI

innovation

Thank you