

FP7 PROJECTS “nano” – Romanian participation

- **NMP - Nanosciences, nanotechnologies, materials & new production technologies (14 projects nano din 30 participare romaneasca in NMP)**

			Research area	Project start date	Romanian partners			Parteneri din industrie	
1.	BIOELECTRICSURFACE Electrically modified biomaterials surface		NMP-2007-1.1-1 Nano-scale mechanisms of bio/non-bio interactions NMP-2007-2.1-2 Nanostructured coatings and thin films	2008-10-01	Universitatea Politehnica din Bucuresti	Project Acronym: BIOELECTRICSURFACE Project Reference: 212533 Start Date: 2008-10-01 Duration: 36 months Project Cost: 5 million euro Contract Type: Small or medium-scale focused research project End Date: 2011-09-30 Project Status: Execution Project Funding: 3.54 million euro	UNI	BEOCARE LIMITED, Ireland; BALTON SPOLKA ZOO, Poland; PETER BREHM, Germany COOK IRELAND LIMITED, Ireland	Sector: Healthcare Product/service: Medical Textiles production of medical devices for Cardiology, Radiology and Vascular Surgery. develop and produce implants and instruments made of the most modern materials developing health care devices
2.	MONAD Molecular motors-based nanodevices		NMP-2008-1.1-1 Converging sciences and technologies (nano, bio, info and/or cogni)	2009-10-01	TRITAGEMA CONSULT SRL	Project Acronym: MONAD Project Reference: 228971 Start Date: 2009-10-01 Duration: 36 months Project Cost: 3.73 million euro Contract Type: Small or medium-scale focused research project End Date: 2012-09-30 Project Status: Execution Project Funding: 2.65 million euro	firma	PHILIPS ELECTRONIC S NEDERLAND B.V., Netherland	
3.	BISNES Bio-inspired self-assembled nano-enabled surfaces		NMP-2007-1.1-2 Self-assembling and self-organisation NMP-2007-1.1-1 Nano-scale mechanisms of bio/non-bio	2008-09-01	Universitatea Politehnica din Bucuresti	Project Acronym: BISNES Project Reference: 214538 Start Date: 2008-09-01 Duration: 36 months	UNI	NIL TECHNOLOGY APS - NILT NANOMASK APS Denmark	NIL Technology ApS (NILT) specializes in nanopatterning and nanoimprint lithography

			Research area	Project start date	Romanian partners			Parteneri din industrie	
			interactions			Project Cost: 4.59 million euro Contract Type: No contract type End Date: 2011-08-31 Project Status: Execution Project Funding: 2.88 million euro		PHILIPS ELECTRONICS NEDERLAND B.V. Netherlands IMS NANOFABRI CATION AG Austria	IMS Nanofabrication emerging technologies in the semiconductor and nanotech industry, lithography and resist-less 2D / 3D direct structuring of materials. We develop charged particle (electron / ion) printing technologies for cost effective patterning in the nanometer range onto a wide range of substrates.
4.	EURONANOBIO EUROpean scale infrastructure in NANOBIOtechnology		NMP-2008-1.1-3 Examining capacity building in nano-bio-technology NMP-2008-1.2-1 - Pilot lines to introduce nanotechnology-based processes into the value chain of existing industries	2009-02-01	Institutul national de cercetare- dezvoltare pentru microtehnologie	Project Acronym: EURONANOBIO Project Reference: 231654 Start Date: 2009-02-01 Duration: 12 months Project Cost: 896111.00 euro Contract Type: Support actions End Date: 2010-01-31 Project Status: Completed Project Funding: 699999.00 euro	INCD	CEDRAT TECHNOLOGIES SA France KITOZYME SA Belgium TORRAS VALENTI S.A. Spain	software solutions for electrical and mechatronic engineering applications manufacturer of biopolymers dedicated to four strategic markets: nutraceuticals, cosmetics, beverage, pharmaceuticals and medical. companies in surgical gauze, bandages and swabs manufacturing

			Research area	Project start date	Romanian partners			Parteneri din industrie	
								PARCO SCIENTIFICO E TECNOLOGICO PER L'AMBIENTE - ENVIRONMENT PARK SPA Italy	mission is to provide small and medium-sized enterprises with advanced solutions and innovative technologies in the fields of energy and the environment, through partnerships, special projects, specific training activities and the organisation of thematic events.
								PIELASZEK RESEARCH Poland	is a niche, commercial enterprise supporting industrial and academic scientists with highly specialized, Internet-based on-line systems for processing of a wide area of scientific data: from fundamental physical equations, across experimental data elaboration and experiment control, to publication systems
								AFCON INDUSTRIES LTD Israel	design, manufacture, integration and sale of a wide range of electro-mechanical and control systems,

			Research area	Project start date	Romanian partners			Parteneri din industrie	
									and has gained market leadership based on quality, performance and innovation.
								KLOPMAN INTERNATIONAL SRL Italy	manufacturer dedicated solely to the production of polyester/cotton blended fabrics for image workwear, protective wear, and casual apparel - a specialisation that reaches into virtually every sphere of the world at work, as well as the high street.
5.	SONO A pilot line of antibacterial and antifungal medical textiles based on a sonochemical process		NMP-2008-1.2-1 Pilot lines to introduce nanotechnology-based processes into the value chain of existing industries NMP-2007-2.1-1 - Nanostructured polymer-matrix composites	2009-10-01	- Institutul National De Cercetare-dezvoltare Pentru Textile Si Pielarie - S.C. DAVO STAR IMPEX SRL	Project Acronym: SONO Project Reference: 228730 Start Date: 2009-10-01 Duration: 48 months Project Cost: 12.04 million euro Contract Type: Large-scale integrating project End Date: 2013-09-30 Project Status: Execution Project Funding: 8.3 million euro	INCD Firma		
6.	NANOTOUGH Nanostructured toughened hybrid nanocomposites for high performance applications		NMP-2007-2.1-1 Nanostructured polymer-matrix composites	2008-10-01	Institutul National de Cercetare Dezvoltare Pentru Chimie si Petrochimie - ICECHIM Bucuresti	Project costs: 7 190 000 € (5 090 000 € funded by FP7) Contract type: Large-scale integrating project Nanostructured polymer-matrix composites (NMP-2007-2.1-1)	INCD		
7.	HARCANA High aspect ratio carbon-based nanocomposites		NMP-2007-2.1-1 Nanostructured polymer-matrix composites NMP-2007-2.1-3 -	2008-07-01	Institutul National de Cercetare Dezvoltare Pentru Chimie si Petrochimie -	Project Acronym: HARCANA Project Reference: 213277	INCD		

			Research area	Project start date	Romanian partners			Parteneri din industrie	
			Characterisation of nanostructured materials		ICECHIM Bucuresti	Start Date: 2008-07-01 Duration: 48 months Project Cost: 7.39 million euro Contract Type: No contract type End Date: 2012-06-30 Project Status: Execution Project Funding: 5.44 million euro			
8.	NAPOLYNET Setting up research intensive clusters across the EU on characterization of polymer nanostructures		NMP-2007-2.1-3 Characterisation of nanostructured materials,NMP-2007-1.3-5 Coordination in studying the environmental, safety and health impact of engineered nanoparticles and nanotechnology based materials and products NMP-2007-2.2-2 - Nanostructured materials with tailored magnetic properties	2008-04-01	Institutul de Chimie Macromoleculara Petru Poni Iasi	Project Acronym: NAPOLYNET Project Reference: 218331 Start Date: 2008-04-01 Duration: 36 months Project Cost: 1.46 million euro Contract Type: Coordination (or networking) actions End Date: 2011-03-31 Project Status: Execution Project Funding: 1.2 million euro	IAR		
9.	NANOMAGMA Nanostructured active magneto-plasmonic materials		NMP-2007-2.2-2 Nanostructured materials with tailored magnetic properties NMP-2007-2.3-1 - Highly porous bioactive scaffolds favouring angiogenesis for tissue engineering	2008-11-01	Centrul International de Biodinamica	Project Acronym: NANOMAGMA Project Reference: 214107 Start Date: 2008-11-01 Duration: 36 months Project Cost: 3.86 million euro Contract Type: Small or medium-scale focused research project End Date: 2011-10-31 Project Status: Execution Project Funding: 2.96 million euro	IP		
10.	BIOSCENT Bioactive highly porous and injectable scaffolds controlling stem cell recruitment, proliferation and		NMP-2007-2.3-1 Highly porous bioactive scaffolds favouring angiogenesis for tissue engineering NMP-2007-3.1-3 - Integrated Risk Management in Industrial Systems	2009-01-01	Institutul de Chimie Macromoleculara "Petru Poni"	Project Acronym: BIOSCENT Project Reference: 214539 Start Date: 2009-01-01 Duration: 60 months Project Cost: 8.34 million euro	IAR		

			Research area	Project start date	Romanian partners			Parteneri din industrie	
	differentiation and enabling angiogenesis for cardiovascular engineered tissues					Contract Type: Large-scale integrating project End Date: 2013-12-31 Project Status: Execution Project Funding: 6.31 million euro			
11.	NANOFOL	Folate-based nanobiodevices for integrated diagnosis/therapy targeting chronic inflammatory diseases	NMP-2008-4.0-1 Organisation of events related to the Presidencies of the European Union	2009-12-01	Universitatea Aurel Vlaicu din Arad	Project Acronym: NANOFOL Project Reference: 228827 Start Date: 2009-12-01 Duration: 48 months Project Cost: 6.63 million euro Contract Type: Large-scale integrating project End Date: 2013-11-30 Project Status: Execution Project Funding: 5.15 million euro	UNI		
12.	SUPERSONIC	Supersonic deposition of nanostructured surfaces	NMP-2008-4.0-3 Nano-technology enabled applications for integrated, cost-effective volume production	2009-12-01	National R & D Institute For Non-ferrous and Rare Metals	Project Acronym: SUPERSONIC Project Reference: 228814 Start Date: 2009-12-01 Duration: 48 months Project Cost: 6.14 million euro Contract Type: Large-scale integrating project End Date: 2013-11-30 Project Status: Execution Project Funding: 4.6 million euro	INCD		
13.	EURONANOMED	EUROpean network of trans-national collaborative RTD in the field of NANOMEDicine	NMP-2008-4.0-13 ERA-NET on nanomedicine	2009-01-01	Ministerul Educatiei, Cercetarii si Inovarii - Autoritatea Nationala pentru Cercetare Stiintifica - Centrul National de Management Programe	Project Acronym: EURONANOMED Project Reference: 234811 Start Date: 2009-01-01 Duration: 36 months Project Cost: 1.44 million euro Contract Type: Coordination (or networking) actions End Date: 2011-12-31 Project Status: Execution Project Funding: 1.33 million euro	IP		
14.	NANOSUSTAIN	Development of	NMP-2009-1.3-1 Activities	2010-05-01	National Institute for	Project Acronym:	INCD		

			Research area	Project start date	Romanian partners			Parteneri din industrie	
		sustainable solutions for nanotechnology-based products based on hazard characterization and LCA	towards the development of appropriate solutions for the use, recycling and final treatment of nanotechnology-based products		R&D in Microtechnologies	NANOSUSTAIN Project Reference: 247989 Start Date: 2010-05-01 Duration: 36 months Project Cost: 3.23 million euro Contract Type: Small or medium-scale focused research project End Date: 2013-04-30 Project Status: Execution Project Funding: 2.48 million euro			

▪ **ICT - Information and Communication Technologies**

			Research area	Project start date	Romanian partners		
15.	NEMSIC	Hybrid nano-electro-mechanical / integrated circuit systems for sensing and power management applications	ICT-2007.3.6 Micro/nanosystems	2008-06-01	HONEYWELL ROMANIA SRL	Project Acronym: NEMSIC Project Reference: 224525 Start Date: 2008-06-01 Duration: 36 months Project Cost: 5.16 million euro Contract Type: Collaborative project (generic) End Date: 2011-05-31 Project Status: Execution Project Funding: 3.9 million euro	Firma
16.	CATHERINE	Carbon nanotube technology for high-speed next-generation nano-Interconnects	ICT-2007.8.1 Nano-scale ICT devices and systems	2008-01-01	Institutul National de Cercetare Dezvoltare pentru Microtehnologie	Project Acronym: CATHERINE Project Reference: 216215 Start Date: 2008-01-01 Duration: 36 months Project Cost: 3.52 million euro Contract Type: Collaborative project (generic) End Date: 2010-12-31 Project Status: Execution Project Funding: 2.65 million euro	INCD

▪ **Knowledge-Based Bio-Economy (KBBE)**

			Research area	Project start date	Romanian partners		
17.	HIGHTECH EUROPE	European network for integrating novel technologies for food processing	KBBE-2007-2-3-06 Network for facilitating the implementation of high-tech processing at industrial scale	2009-05-01	- Universitatea Tehnica Cluj-Napoca - Asociația română a carniilor	Project Acronym: HIGHTECH EUROPE Project Reference: 222824 Start Date: 2009-05-01 Duration: 48 months Project Cost: 7.04 million euro Contract Type: Networks of Excellence End Date: 2013-04-30 Project Status: Execution Project Funding: 5.87 million euro	UNI IP

▪ **People - 'Marie Curie Actions'**

			Research area	Project start date	Romanian partners		
18.	MINILUBES	Mechanisms of interactions in <i>nano</i> -scale of novel ionic lubricants with functional surfaces	PEOPLE-2007-1-1-ITN Marie Curie Action: "Networks for Initial Training"	2008-10-01	Institutul de Chimie Macromoleculara Petru Poni	Project Acronym: MINILUBES Project Reference: 216011 Start Date: 2008-10-01 Duration: 48 months Project Cost: 2.72 million euro Contract Type: Networks for Initial Training (ITN) End Date: 2012-09-30 Project Status: Execution Project Funding: 2.72 million euro	IAR

▪ **Capacities – Research potential of Convergence Regions'**

			Research area	Project start date	Romanian partners
19.	MIMOMEMS	European centre of excellence in microwave, millimetre wave and optical devices, based on micro-electro-mechanical systems for advanced	REGPOT-2007-1-01 All thematic priorities' domains of the FP7	2008-05-01	Institutul National de Cercetare Dezvoltare pentru Microtehnologie

			Research area	Project start date	Romanian partners
		communication systems and sensors			

▪ **SME**

			Research area	Project start date	Romanian partners
20.	SENSBIOSYN	Biosensors and Sensors for the industrial biosynthesis process of widely used commercial antioxidants: Nutraceuticals as additives for food and aquaculture promoting public health and safety	SME-1 Research for SMEs	2009-11-01	Institutul National De Cercetare Dezvoltare Pentru Stiinte Biologice RA

▪ **ENERGY**

			Research area	Project start date	Romanian partners
21.	THERMONANO	Low-temperature heat exchangers based on thermally-conducting polymer nanocomposites	ENERGY.2008.8.1.1 Energy efficiency of industrial heat exchangers and boilers	2009-01-01	STAROM GRUP S.R.L.

Participarea in 14 proiecte a 11 institutii (numaram participarea nu institutia) Tipuri de institutii

2 firme
3 UNI
2 IP
2 IAR
6 INCD

Romanian partners

Institutul de Chimie Macromoleculara "Petru Poni" 2
 Institutul National de Cercetare Dezvoltare Pentru Chimie si Petrochimie - ICECHIM Bucuresti 2
 Institutul national de cercetare- dezvoltare pentru Microtehnologie 2
 Universitatea Politehnica din Bucuresti 2
 Ministerul Educatiei, Cercetarii si Inovarii - Autoritatea Nationala pentru Cercetare Stiintifica 1
 Institutul National De Cercetare-dezvoltare Pentru Textile Si Pielarie 1
 National R & D Institute For Non-ferrous and Rare Metals 1
 Centrul International de Biodinamica 1
 S.C. DAVO STAR IMPEX SRL 1
 TRITAGEMA CONSULT SRL 1

Universitatea Aurel Vlaicu din Arad 1

Schema finantare proiecte

Coordination (or networking) actions 2

Large-scale integrating project 6

Small or medium-scale focused research project 5

Support actions 1

ICT

			Research area	Romanian partners		
22.	NEMSIC	Hybrid nano-electro-mechanical / integrated circuit systems for sensing and power management applications	ICT-2007.3.6 Micro/nanosystems	HONEYWELL ROMANIA SRL	Collaborative project (generic)	Firma
23.	CATHERINE	Carbon nanotube technology for high-speed next-generation nano-Interconnects	ICT-2007.8.1 Nano-scale ICT devices and systems	Institutul National de Cercetare Dezvoltare pentru Microtehnologie	Collaborative project (generic)	INCD

Capacities

			Research area	Project start date	Romanian partners		
24.	MIMOMEMS	European centre of excellence in microwave, millimetre wave and optical devices, based on micro-electro-mechanical systems for advanced communication systems and sensors	REGPOT-2007-1-01 All thematic priorities' domains of the FP7	2008-05-01	Institutul National de Cercetare Dezvoltare pentru Microtehnologie	Project Cost: 1.23 million euro Contract Type: No contract type Funding: 1.1 million euro	INCD

▪ Knowledge-Based Bio-Economy (KBBE)

			Research area	Project start date	Romanian partners		
25.	HIGHTECH EUROPE	European network for integrating novel technologies for food processing	KBBE-2007-2-3-06 Network for facilitating the implementation of high-tech processing at industrial scale	2009-05-01	- Universitatea Tehnica Cluj-Napoca - Asociatia romana a carnilor	Networks of Excellence	UNI IP

▪ **People - 'Marie Curie Actions'**

			Research area	Project start date	Romanian partners		
26.	MINILUBES	Mechanisms of interactions in <i>nano</i> -scale of novel ionic lubricants with functional surfaces	PEOPLE-2007-1-1-ITN Marie Curie Action: "Networks for Initial Training"	2008-10-01	Institutul de Chimie Macromoleculara Petru Poni	Networks for Initial Training (ITN)	IAR

▪ **SME**

			Research area	Project start date	Romanian partners		
27.	SENSBIOSYN	Biosensors and Sensors for the industrial biosynthesis process of widely used commercial antioxidants: Nutraceuticals as additives for food and aquaculture promoting public health and safety	SME-1 Research for SMEs	2009-11-01	Institutul National De Cercetare Dezvoltare Pentru Stiinte Biologice RA	Contract Type: Research for SMEs	IAR

▪ **ENERGY**

			Research area	Project start date	Romanian partners		
28.	THERMONANO	Low-temperature heat exchangers based on thermally-conducting polymer nanocomposites	ENERGY.2008.8.1.1 Energy efficiency of industrial heat exchangers and boilers	2009-01-01	STAROM GRUP S.R.L.	Contract Type: Collaborative project (generic)	Firma

ICT

INCD 1
Firma 1

Tematica

ICT-2007.3.6 Micro/nanosystems
ICT-2007.8.1 Nano-scale ICT devices and systems

Capacities REGPOT

INCD 1

Tematica

Micro/nanosystems

Knowledge-Based Bio-Economy (KBBE)

UNI

IP

Tematica

KBBE-2007-2-3-06 Network for facilitating the implementation of high-tech processing at indu ...,1.3 HEAT AND ENERGY FROM DIRECT COMBUSTION,KBBE-2007-2-3-06 Network for facilitating the implementation of high-tech processing at industrial scale

People - 'Marie Curie Actions

IAR

SME

IAR

Tematica

NMP-2003-3.4.1.4-1 Characterisation and/or manipulation devices and techniques,
IST-2000-8.1.2 Networks of Excellence and working groups,
1.1.2.-2.3.2 New market mediation systems,SME-1 Research for SME

Energy

FIRMA

Tematica

ENERGY.2008.8.1.1 Energy efficiency of industrial heat exchangers and boilers,03080203 Demonstration of hybrid systems combining different renewable energy source ...,ENERGY.2008.8.1.1 Energy efficiency of industrial heat exchangers and boilers,2001-3.1.1 Publishing digital content