



Anexa 9.2 – Proiecte FP7 in domeniul “nano” cu participarea Romaniei

- **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 |



| | | | Research area | Project start date | Romanian partners | | | Parteneri din industrie | |
|----|--|--|--|--------------------|---|--|-------|--|---|
| 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 ELECTRONICS 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 interactions | 2008-09-01 | Universitatea Politehnica din Bucuresti | Project Acronym: BISNES Project Reference: 214538 Start Date: 2008-09-01 Duration: 36 months 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 | UNI | NIL TECHNOLOGY APS - NILT NANOMASK APS Denmark PHILIPS ELECTRONICS NEDERLAND B.V. Netherlands IMS NANOFABRICATION AG Austria | NIL Technology ApS (NILT) specializes in nanopatterning and nanoimprint lithography 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 |



| | | | Research area | Project start date | Romanian partners | | | Parteneri din industrie | |
|----|---|--|---|--------------------|---|---|------|--|---|
| | | | | | | | | | / 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 PARCO SCIENTIFICO E TECNOLOGICO PER L'AMBIENTE - ENVIRONMENT PARK SPA Italy | 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 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 |



| | | | Research area | Project start date | Romanian partners | | | Parteneri din industrie | |
|--|--|--|---------------|--------------------|-------------------|--|--|-----------------------------|--|
| | | | | | | | | | 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, and has gained market |



| | | | Research area | Project start date | Romanian partners | | | Parteneri din industrie | |
|----|--|--|---|--------------------|--|--|-----------------------------|---------------------------------|---|
| | | | | | | | | | 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 | | |



| | | | Research area | Project start date | Romanian partners | | | Parteneri din industrie | |
|----|--|--|---|--------------------|--|---|------|-------------------------|--|
| 7. | HARCANA High aspect ratio carbon-based nanocomposites | | NMP-2007-2.1-1 Nanostructured polymer-matrix composites NMP-2007-2.1-3 - Characterisation of nanostructured materials | 2008-07-01 | Institutul National de Cercetare Dezvoltare Pentru Chimie si Petrochimie - ICECHIM Bucuresti | Project Acronym: HARCANA Project Reference: 213277 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 | INCD | | |
| 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 | IP | | |

| | | | Research area | Project start date | Romanian partners | | | Parteneri din industrie | |
|-----|---|--|---|--------------------|--|---|------|-------------------------|--|
| | | | | | | Project Funding: 2.96 million euro | | | |
| 10. | BIOSCENT Bioactive highly porous and injectable scaffolds controlling stem cell recruitment, proliferation and differentiation and enabling angiogenesis for cardiovascular engineered tissues | | 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 Contract Type: Large-scale integrating project End Date: 2013-12-31 Project Status: Execution Project Funding: 6.31 million euro | IAR | | |
| 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 Nanotechnology 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 | | |

| | | | Research area | Project start date | Romanian partners | | | Parteneri din industrie | |
|-----|-----------------------------|---|--|--------------------|---|--|------|-------------------------|--|
| 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 sustainable solutions for nanotechnology-based products based on hazard characterization and LCA | NMP-2009-1.3-1 Activities towards the development of appropriate solutions for the use, recycling and final treatment of nanotechnology-based products | 2010-05-01 | National Institute for R&D in Microtechnologies | Project Acronym: 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 | INCD | | |

▪ **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 | Firma |



| | | | Research area | Project start date | Romanian partners | | |
|-----|---------------------------|--|---|--------------------|--|---|------|
| | | | | | | Contract Type: Collaborative project (generic) End Date: 2011-05-31 Project Status: Execution Project Funding: 3.9 million euro | |
| 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 - Asociatia romana a carnii | 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 nano -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 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 |

▪ **SME**

| | | | Research area | Project start date | Romanian partners |
|-----|----------------------------|---|-------------------------|--------------------|------------------------|
| 20. | SENSBIOSYN | Biosensors and Sensors for the industrial | SME-1 Research for SMEs | 2009-11-01 | Institutul National De |



| | | | Research area | Project start date | Romanian partners |
|--|--|--|---------------|--------------------|--|
| | | biosynthesis process of widely used commercial antioxidants: Nutraceuticals as additives for food and aquaculture promoting public health and safety | | | 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 | KBBE-2007-2-3-06 Network for facilitating the implementation of | 2009-05-01 | - Universitatea Tehnica Cluj-Napoca | Networks of Excellence | UNI IP |

| | | | Research area | Project start date | Romanian partners | | |
|--|--|------------|--|--------------------|-----------------------------|--|--|
| | | processing | high-tech processing at industrial scale | | - Asociatia romana a carnii | | |

▪ **People - 'Marie Curie Actions'**

| | | | Research area | Project start date | Romanian partners | | |
|-----|---------------------------|---|---|--------------------|---|-------------------------------------|-----|
| 26. | MINILUBES | Mechanisms of interactions in nano -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