Nanosciences, Nanotechnologies, Materials and New Production Technologies 2009 - 2010

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Information day NMP  Prague, 11.12. 2008
Towards the WP 2009-2010: main features

- Complementarity between the topics 2009 & 2010
- Budget allocation by call – funding schemes (LA, FP, SME, CSA)
- Small and medium scale focused research project (FP) < 4M€ (recommended size 1-3 M€)
- Industrial relevance in all topics
- Two stage submission for all projects (except CSA)
- One evaluation panel per topic


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### On the budget

<table>
<thead>
<tr>
<th></th>
<th>WP 2009</th>
<th>WP 2010</th>
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<tbody>
<tr>
<td>Indicative Budget 2009 (mio €)</td>
<td>~ 150</td>
<td>---</td>
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<tr>
<td>Indicative Budget 2010 (mio €)</td>
<td>~ 100</td>
<td>~ 315</td>
</tr>
<tr>
<td><strong>Total (mio €)</strong></td>
<td><strong>250</strong></td>
<td><strong>315</strong></td>
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### On the timing

<table>
<thead>
<tr>
<th></th>
<th>WP 2009</th>
<th>WP 2010</th>
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<tbody>
<tr>
<td>Final Draft</td>
<td>By 25 July 08</td>
<td>Beginning April 09</td>
</tr>
<tr>
<td>ISC</td>
<td>By 20 September 08</td>
<td>By end May 09</td>
</tr>
<tr>
<td>PC opinion</td>
<td>By end October 08</td>
<td>End of June 09</td>
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<tr>
<td>WP adoption and calls publication</td>
<td><strong>17 November 08</strong></td>
<td><strong>End July 09</strong></td>
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Outline of the NMP Theme  — 3rd CALL - 2009

**Large scale cooperative projects**
- NANO (7)
- MATERIALS (6)
- PRODUCTION (4)
- INTEGRATION (5)

**SME-focused cooperative projects**
- 2

**Small and medium scale focused research projects**
- 3+ 1 INCO
- 2+ 1 INCO
- 1

**Coordination & Support Actions (CSA)**
- 2

**ERA Net**
- 3

**ERA Net Plus**
- 1

**SME-focused cooperative projects**
- 2+ 1 INCO
- 1

**Joint calls & Other activities**
- 25 M€

**Totals (22)**
- 7
- 3
- 8
- 3
- 1

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- 61 M€
- 15 M€
- 43 M€
- 5 M€
- 1.5 M€
- 25 M€

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4.1.1 Nanosciences and converging sciences

NMP-2009-1.1-1 Nanobiotechnology: Applying life science principles as model for new nanotechnology-based mechanisms, processes, devices and/or systems (FP)

4.1.2 Nanotechnologies and converging technologies

NMP-2009-1.2-1 Nanotechnology for harvesting energy via photovoltaic technologies (FP)

NMP-2009-1.2-2 Molecular factory: manufacturing micro or macro objects with predictable and controllable properties (FP)
/Bio-mimetic concepts are here excluded, but addressed under NMP-2009-1.1.1 above./
NMP-2009-1.2-3 Nanostructured sensors – coordinated calls with Russia
   A. Optical chemical sensing with nano-particles, nano-waveguides and photonic-crystal fibres (FP).
   B. Wireless Surface Acoustic Wave Physical Sensors for operation in a wide temperature range (FP)
   C. Sensing of toxic and explosive agents in air based on metal oxide semiconductor nano-structured materials (FP).

Summision deadline 31.3.2009, single stage evaluation, max. EC contribution 1.55 M € per topic

NMP-2009-1.2-4. Survey of nanotechnology research infrastructures in Russia (CSA)

Summision deadline 31.3.2009, single stage evaluation, max. EC contribution .35 M € per topic

NMP-2009-1.2-5 Best practices to interface researchers and/or investors (CSA)

4.1.3 Health, Safety and Environmental Impacts

NMP-2009-1.3-1 Activities towards the development of appropriate solutions for the use, recycling and final treatment of nanotechnology-based products (Joint call with Theme 6: "Environment (including Climate Change)") (FP) Summision deadline 31.3.2009, single stage evaluation, max. EC contribution 2.5 M €, total budge 10 M €

NMP-2009-1.3-2 Exposure scenarios to nanoparticles (CSA)
4.2.1 Mastering nano-scale complexity in materials

NMP-2009-4.2.1-1 Nano-structured materials based on graphene (FP).

4.2.2 Knowledge-based smart materials with tailored properties

NMP-2009-4.2.2-1 Oxide materials for electronics applications (FP).

4.2.3 Novel biomaterials and bioinspired materials

NMP-2009-4.2.3-1 Biomimetic gels and polymers for tissue repair (FP).

NMP-2009-4.2.4-1 New biomass-based composite materials and their processing (SME)

4.2.5 Using engineering to develop high performance knowledge-based materials

NMP-2009-4.2.5-1  Light high-performance composites (LA)

4.2.6 Coordinated activities and international cooperation

NMP-2009-4.2.6-1  Novel membranes for water technologies (FP)
/SICA for African and/or Middle-East countries/


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4.3.1 Development and validation of new industrial models and strategies

- No topics foreseen for the year 2009 -

4.3.2 Adaptive production systems

NMP-2009-4.3.2-1 Innovative pathways for sustainable chemical production (LA).

NMP-2009-4.3.2-2 Adaptive control systems for responsive factories (FP).

4.3.3 Networked production

- No topics foreseen for the year 2009 -

4.3.4 Rapid transfer and integration of new technologies into the design and operation of manufacturing processes

NMP-2009-4.3.4-1 Automation and robotics for sustainable crop and forestry management (LA)

NMP-2009-4.3.4-2 Holistic and integrated approach to high performance, reliable and adaptive machine tool design and production (SME)

4.3.5 Exploitation of the convergence of technologies

- No topics foreseen for the year 2009 -

NMP-2009-4.4.0-1  Sustainable Biorefineries (CP)
Summision deadline 2.12.2008, 2 stage evaluation, total EC budged 55 M€

NMP-2009-4.4.0-2  Enhancing exchange of information, synergies and cross-fertilisation between projects in the field of Biorefineries (CSA)
Summision deadline 2.12.2008, 1 stage evaluation, total EC budged 2 M€

NMP-2009-4.4.0-3  Development of nanotechnology-based systems for molecular diagnostics and imaging (LA).

NMP-2009-4.4.0-4  Reducing environmental footprint of energy intensive industries (LA)

NMP-2009-4.4.0-5  Innovative and knowledge-based tooling industry (SME)

NMP-2009-4.4.0-6  Organisation of NMP events related to the Presidencies of the European Union (CSA)

NMP-2009-4.4.0-7  ERANET on high value added textiles and fibre-based materials

Consultancy, partnering and lobbying

Programme committee

Advisory groups

Nano-electronics (ENIAC);
Nanomedicine;
Sustainable Chemistry;
Steel;
Textiles & Clothing;
Manufacturing Technologies;
Construction Technology;
Hydrogen; Photovoltaics
Industrial Safety;


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In supporting participation of the Czech Rep. in the FP7

MEYS, International Cooperation in R&D

PC

EC, DG Research CORDIS

Technology Centre

NICER: NCP (EU network) CZELO: IGLO

Regional and thematic contact points

Universities, Research institutes, SMEs, Industry, End users, ...

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Support activities of TC AV ČR


- Dissemination of information (seminars, brochures etc.)
- Support of project preparation
- Partnering events - brokerage
- Online database of partner searches

CZELO: [http://www.czelo.cz]

- Up to date information services from EC, EP, CoE etc.
- Organization services & assistance to Czech R&D
- PR activities


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Thank you for your attention.