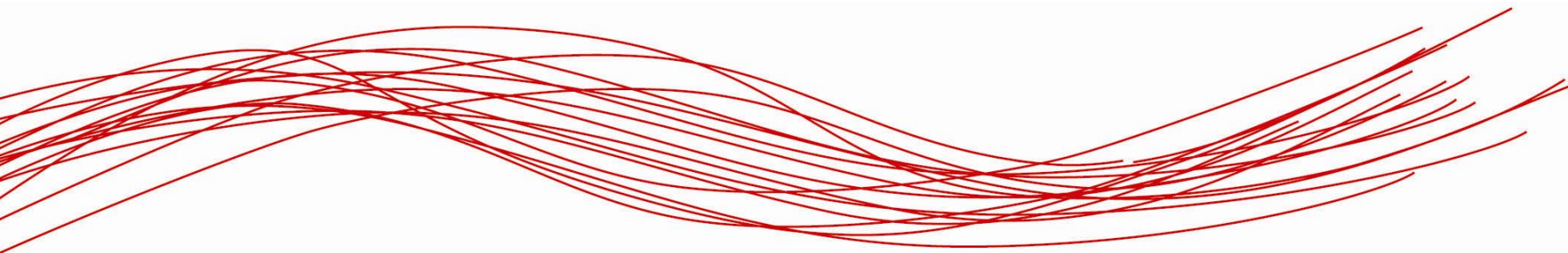


FP7 NMP 2nd call



European Commission
Research DG, Industrial Technologies Directorate
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APRE

NMP NCP meeting, 15
November 2007

Chi è

Agencia no-profit, creata nel 1990 con il patrocinio del Ministero della Ricerca e della Commissione Europea.

Missione

Promuovere la partecipazione italiana ai programmi europei di Ricerca, Sviluppo e Innovazione Tecnologica dell'Unione Europea.

Sportelli

19

distribuiti su
tutta Italia



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10 Themes

	(€million)
1. Health	6 100
2. Food, agriculture and fisheries, and biotechnology	1 935
3. Information and communication technologies	9 050
4. Nanotechnologies, materials and production	3 475
5. Energy	2 350
6. Environment	1 890
7. Transport	4 160
8. Socioeconomic research	623
9. Space	1 430
10. Security	1 400
Total	32 413

* Not including non-nuclear activities of the Joint Research Centre: €1 751 million

Contribute to Industrial Transformation

- In the globalised economy, EU industry must focus upon **creating products with more added-value especially by** moving from:
 - Individual to system competitiveness
 - Resource-based to knowledge-based economies
 - Macro → micro → nano
 - Mono-disciplinarity → interdisciplinarity → convergence

Same as in FP6 : improve the competitiveness of EU industry (including SMEs) and ensure its transformation through:

- the **effective transition** from a resource-based to knowledge-based industry
- generation of **new breakthrough**, applicable, knowledge
- strengthening **EU leadership** in nano, materials and production technologies
- emphasis on **integrating** different technologies and disciplines across **many sectors**

BUT Importance of **Technology Platforms** to help establish common research priorities and targets



Le Piattaforme Tecnologiche legate al Tema 4:

Nanoelettronica (ENIAC); Nanomedicina;
Chimica sostenibile(SUSCHEM); Acciaio; Tessili del Futuro &
Abbigliamento; Tecnologie manifatturiere(MANUFUTURE);
Tecnologie per la costruzione (ETPC); Sicurezza Industriale;
Idrogeno(HYDROGEN AND FUEL CELLS); Energia
fotovoltaica; ...

NMP 2 Stage Approach

- **CPs** will be evaluated using the **2-stage process** (Small, Large, SME)
- **CSAs** will be evaluated in a **single stage**
- Stage 1 proposals **10 +2 pages**
- Evaluation against **limited criteria** (S&T Quality, Impact)
- Stage 1 evaluated **“remotely”**
- **“GO”** proposals will be invited to submit at Stage 2
- Stage 2: **full proposals** evaluated against all criteria

Main features of NMP process

- **Strategic use** of funding schemes (one funding scheme per topic)
- Calls by **funding scheme**
- Budget allocation **by call** (not by Activity/area)
 - **2 Joint Calls** addressing cross-cutting topics and implemented jointly with other themes **Energy** and **Environment**
 - **1 coordinated call with India** allowing concurrent calls with other Themes on topics/initiatives with complementary objectives, including third countries
 - **ERANET call** – 3 topics (nanomedicine, forestry, micro- & nano-manufacturing)
 - **ERANET+ call** – 1 topic (materials research)

Outline of the FINAL DRAFT Work Programme for NMP –
November 6, 2007

45 topics

	LArg e Large scale cooperative projects	SME SME-focused cooperative projects	SMAI Small or medium scale cooperative projects	Othe Coordination & Support Actions (CSA) ERA Net ERA Net Plus		
NANO (9)	2		4	3		
MATERIALS (13)	2		9	1		1
PRODUCTION (8)	3	2	2	1		
INTEGRATION (15)	6	3		3	3	
Totals (45)	13	5	15	8	3	1

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Indicative EC funding for the Second NMP Call

45 topics
500 M€

	Large	SME	Small	Other		
	Large scale cooperative projects	SME-focused cooperative projects	Small or medium scale cooperative projects	Coordination & Support Actions (CSA)	ERA Net	ERA Net Plus
TOTAL of topics (45)	13	5	15	8	3	1
TOTAL EC budget 500 M€ (indicative)	240	65	170*	15	4	6

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*including 1 Joint and 2 Coordinated Calls (20 M€)

Activity 4.1: Nano S&T

4.1.1: Nanosciences and converging sciences

4.1.2: Nanotechnologies and converging technologies

4.1.3: Health, Safety and Environmental Impacts

Activity 4.2: Materials

4.2.1: Mastering nano-scale complexity in materials

4.2.2: Knowledge-based smart materials with tailored properties

4.2.3: Novel biomaterials and bioinspired materials

4.2.4: Advances in chemical technologies and materials processing

4.2.5: Using engineering to develop high performance materials

4.2.6: Coordinated activities and Int. Cooperation

Activity 4.3: New Production

- 4.3.1: Development and validation of new industrial models and strategies
- 4.3.2: Adaptive production systems
- 4.3.3: Networked production
- 4.3.4: Rapid transfer and integration of new technologies into the design and operation of manufacturing processes
- 4.3.5: Exploitation of the convergence of technologies

Activity 4.4: Integration

- Development of nanotechnology-based systems for diagnosis and/or therapy for diabetes, musculo-skeletal or inflammatory diseases - **LSIP**
- Catalysts and sustainable processes to produce liquid fuels from coal and natural gas – **LSIP**
- Nanotechnology-enabled applications for integrated, cost-effective volume production– **LSIP**
- Expanding the limits of advanced materials processing applications through a new generation of high brilliance lasers – **LSIP**

Activity 4.4: Integration

- Innovative concepts and processes for strategic mineral supply and for new high added value mineral-based products – **LSIP**
- Sustainable new products and markets through bio-production of green forest-based chemicals and materials – **LSIP**
- Integration of new technologies and materials for differentiated consumer-centred product capability **SME-TP**
- Smart materials for applications in the sectors of construction and of machinery and production equipment – **SME-TP**
- Reducing the risk of injury in complex systems through advanced personal protective equipment – **SME-TP**

Activity 4.4: Integration

- Organisation of events related to the Presidencies of the EU - **CSA**
- NCP transnational activities - **CSA**
- Horizontal activities responding to emerging and policy needs in the context of ERA - **CSA**
- **ERA-NET** on Nanomedicine
- **ERA-NET** on trans-national cooperation for new innovative products in the in the forest based value chains
- **ERA-NET** on implementing micro- and nanomanufacturing technologies with Member States industry

Renewal of the content of the Work Programme

- ***Experience*** gained during first call and 6th Framework Programme
- Accompany the implementation of the ***nanotechnologies Action Plan***
- Strong input from ***Technology Platforms***
- Attempt at ***focalisation*** – **45 topics** for the 2nd call

Theme 4 information

- Cordis NMP activity service - **Calls info!**
<http://cordis.europa.eu/nmp/home.html>
- Industrial Technologies website
http://ec.europa.eu/research/industrial_technologies/index_en.html
- Commission Nanotechnologies homepage
<http://cordis.europa.eu/nanotechnology>
- New theme 4 enquiry service (helpdesk)
<http://ec.europa.eu/research/enquiries/>



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Part A

- Single set of budget figures for project submitted by coordinator
- **Only coordinator fills in A forms**

Part B max page length strictly applied

- 10 + 2 pages
- Stick to numbering used in Guide

- **Scoring / Thresholds**
- 0 – 5 points per criterion
- 0 = not addressed, 5 = excellent
- Half points may be used by evaluators
- Totals will have a resolution of 0.1

		CPs	CSAs
Stage 1 Thresholds:	Criteria 1 (S&T Quality)	4/5	3/5
	Criteria 2 (Implementation)	-	3/5
	Criteria 3 (Impact)	3/5	3/5
	Overall	8/10	10/15
Stage 2 Thresholds:	Criteria 1 (S&T Quality)	4/5	-
	Criteria 2 (Implementation)	3/5	-
	Criteria 3 (Impact)	3/5*	-
	Overall	12/15	-

* Criteria impact 4/5 for large

- **Sound concept and quality of objectives**
- **Progress beyond the state-of-the-art (CPs)**
- Quality and effectiveness of the S/T methodology and associated work-plan (CPs at Stage 2)
- Contribution to coordination of high quality research (CAs)
- Quality and effectiveness of the mechanisms, and associated work-plan (CSAs)

Stage 1 sub-criteria shown in bold

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2nd Criterion: **Implementation**

(quality and efficiency of the implementation & management)

- Appropriateness of the management structure and procedures
- Quality and relevant experience of the individual participants
- Quality of the consortium as a whole (including complementarity, balance)
- Appropriate allocation and justification of the resources to be committed (budget, staff, equipment)

Implementation is not evaluated at Stage 1

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(potential impact through the development dissemination and use of project results)

- **Contribution, at European [and/ or international level] to the expected impacts listed in the work programme under the relevant topic**
- Appropriateness of measures for dissemination and/or exploitation of project results and management of intellectual property (CPs at stage 2)
- Appropriateness of measures for spreading excellence, exploiting results and disseminating knowledge, through engagement with stakeholders and the public at large (CSAs)

Stage 1 sub criteria shown in bold

(Relevance is not an evaluation criterion, but....)

- Proposals which are clearly out of the scope of the call will be deemed ineligible – **not evaluated**
- Proposals which are in scope will have their **relevance to the topic** evaluated under the S&T quality criterion
- Proposals will also have the **relevance of their impact** evaluated against the expected impact for the topic under the impact criterion

- The **expected impact** is outlined/defined in the work programme for **each topic**
- **Description of the Activity** may also indicate where important impacts are required
- **Submissions should clearly specify the expected Impact** of the proposed actions and clarify how that meets the expected Impact demanded in the Call

- Begin **early** (but there will be further calls)
- Read *carefully* the contents of the **Work Programme!**
- Take into account the evaluation criteria (from the 1st stage...)
- Submit a draft version on EPSS *one week before* the deadline!
- Do not leave it until the last minute to present the « **Submit** » button!

What proposals should avoid

- **Pure software** development with no research
- **Pure methodology** with no research and innovation on technology and/or pilot cases
- **Consultancy activities**, without any real/proven industrial participation (both solution providers and end users)
- **'Local' applications** with no added value at European level



Grazie per l'attenzione



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