



NMP in FP7 – a major instrument for industrial transformation in Europe

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- A. What is at stake?**
“Standort Europa” Challenge
- B. Continuity and novelty in FP7
NMP/FP6**
- C. Some advice to conclude**



A. What is at stake?

**Manufacturing
is (still) the driving force
of the European Economy**

**“The European Union (EU-25)
Manufacturing industries employ
about 34 (30.4%) million people
and they generate annually €1535
(41.5%) billion of value added
Eurostat 2005**



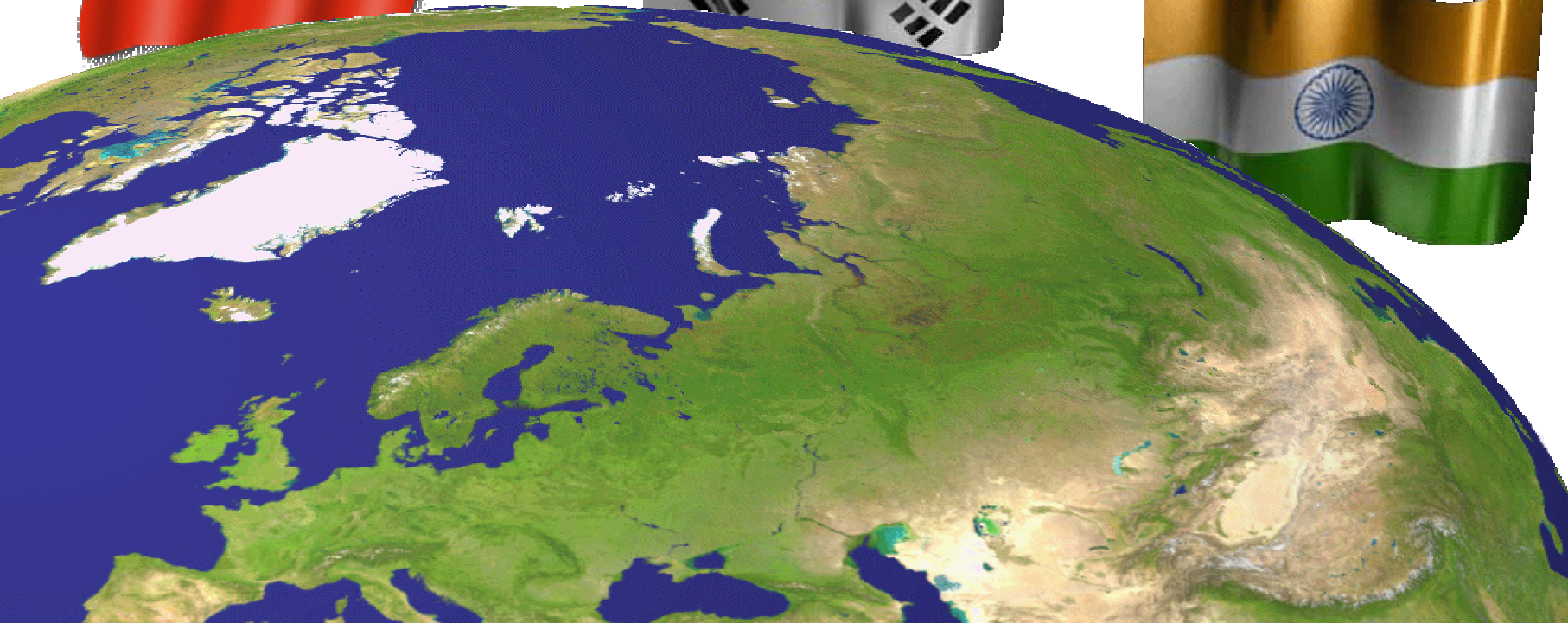
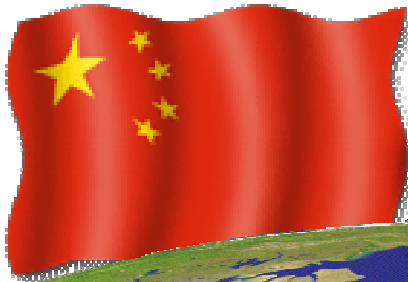
- Industrial production and manufacturing remain central in wealth generation in Europe.
- Growing interdependence between
 - Competitive service-based economy
 - Competitive industry-based economy (1 job in manufacturing → 2 jobs in service)



EUROPEAN
COMMISSION

community research

But challenges for European manufacturing are manifold





Other Fundamental Changes

OLD INDUSTRIES

(resource-based)

- Compact enterprise
- Production chain
- Mass production
- Quantity driven
- Resource-intensive
- Production driven
- Linear approach (*Taylorism* in production)

TO

NEW INDUSTRIES

(knowledge-based)

- Extended enterprise
- Network of suppliers
- Focus to added value
- Quality driven
- Brain intensive
- Demand driven
- Simultaneous approach

« OLD » can be « NEW » again!



EU faced with practical and societal constraints

Too narrow margins of competitiveness:

... by using more natural resources

... against the environment

... against social standards





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**



Tackling a Wide set of Issues

- More knowledge
 - Education
 - Research
 - Infrastructures

- Capacity of application
 - Engineering
 - Manufacturing
 - Patents
 - Regulations

- Reliability

- Metrology
- Standards
- Risk assessment

- Societal « acceptance »

- Expected response to society needs, to people's expectations and concerns
- Cultural attitude to novelty
- Balance and perception of risks and benefits
- Conformity to ethical principles

some issues are better addressed at local, national, EU or global level



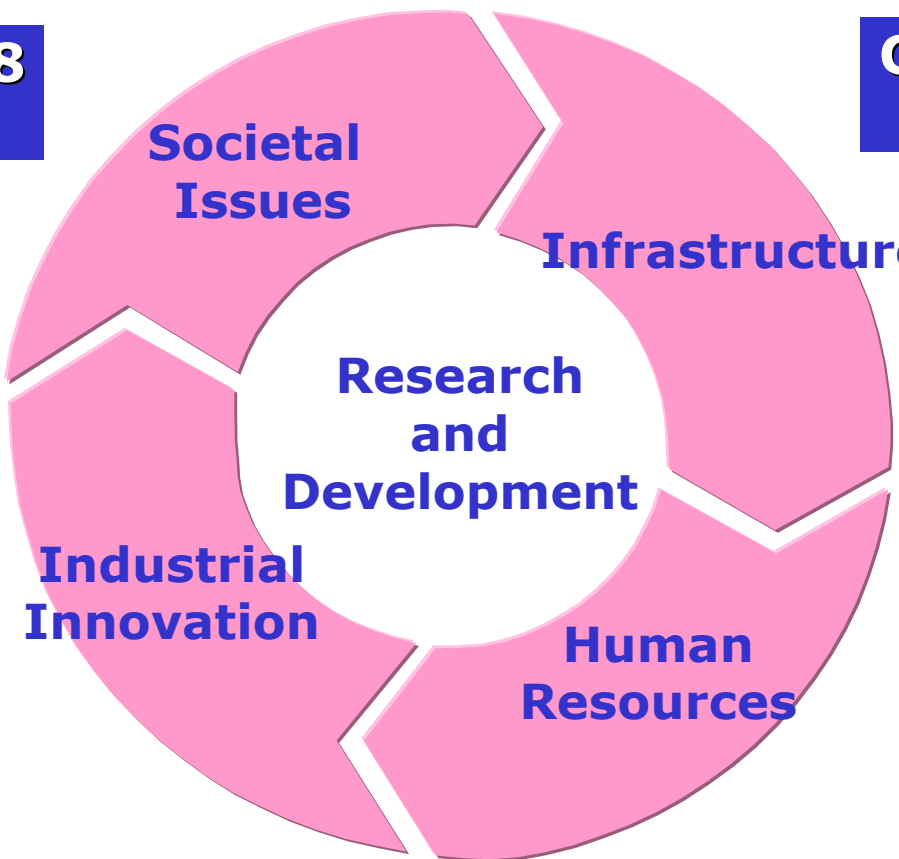
Toward the integrated, safe and responsible development of Nanotechnology

The European Strategy for nanotechnology and the Action Plan

COM(2004) 338 of 12.5.2004

COM(2005) 243 of 7.6.2005

Health, safety, environmental and consumer protection



International Co-operation



B. CONTINUITY AND NOVELTY IN NMP FP7

Continuity:

- In the objectives for the Theme (4 activities)
- In the relative importance of the Theme from 1300 to 3500 m€ (10% of the Cooperation specific programme)
- In the general principles for implementation (legal bases, 2 stages)



Continuity of Objectives

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



Continuity ... the 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 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

B. Novelty in WF Main Features

- **Strategic use** of funding schemes (one funding scheme per topic)
- Calls by **funding scheme**
- Budget allocation **by call** (not by Activity/area)
- **Main calls for 2007**: 3 calls for collaborative projects; 1 for CA/SAs; 1 call for EraNet)

(Not for 2007 ...)

- **Joint Calls** addressing cross-cutting topics and implemented jointly with other themes
- **Coordinated calls** allowing concurrent calls with other Themes on topics/initiatives with complementary objectives, including third countries

Renewal of the content of the Work Programme

- Experience gained during the 6th Framework Programme
- Accompany the implementation of the nanotechnologies Action Plan
- Strong input from Technology Platforms
- Attempt at focalisation – 44 topics for the 1st call

A Global Vision of the FP7

44 topics for calls in the first year

	Large	SME	Small	Other (CSAs)			
		SME	Small Medium Scale Projects	Support Actions (SSA)	Coordination Actions (CA)	ERA Net	ERA Net Plus
NANO (15)	2	1	3	6	2		1
MATERIALS (12)	4	1	6		1		
PRODUCTION (10)	4	2	4				
INTEGRATION (7)	4	2					1
Totaux (44)	14	6	13	6	3	1	1



Novelty in evaluation

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



Indicative Budget (million€)

		Total*	2007	2008
1ST CALLS (published in December)	Large Projects	295.00	200.00	95.00
	Small Projects	150.00	104.77	45.23
	SME-targeted Projects	75.00	44.00	31.00
	SCA	15.00	15.00	
	ERANET		Of which up to 2.5	
	ERANET PLUS	8.00		8.00
	TOTAL	543		
	- Evaluation (3.5) - Calls for tenders (2.5)		6.00	

* Pending adoption by the budgetary authority

Collaborative Projects: **1st stage:**

- 1) Closing Date : 4 May
- 2) Remote Evaluation : May-June

Collaborative Projects – **2nd stage:**

1) Closing Date:

Small/Medium: 13 September

Large: 4 October

SME: 4 October

2) Evaluation: October - November

Call Planning 2007

Other single stage projects: **CSA**

- **Closing Date : 5 June**
- **Evaluation end June**

ERANET and ERANET-Plus

- 1) **Closing Date : 31 July**
- 2) **Evaluation: September**



C. Some Advice

- 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...)
- Think also of other interesting spots in FP7 (ICT, health, food, ERC, Marie Curie..)



Future Proposals

What should be avoided?

- 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