

**TÜBİTAK**



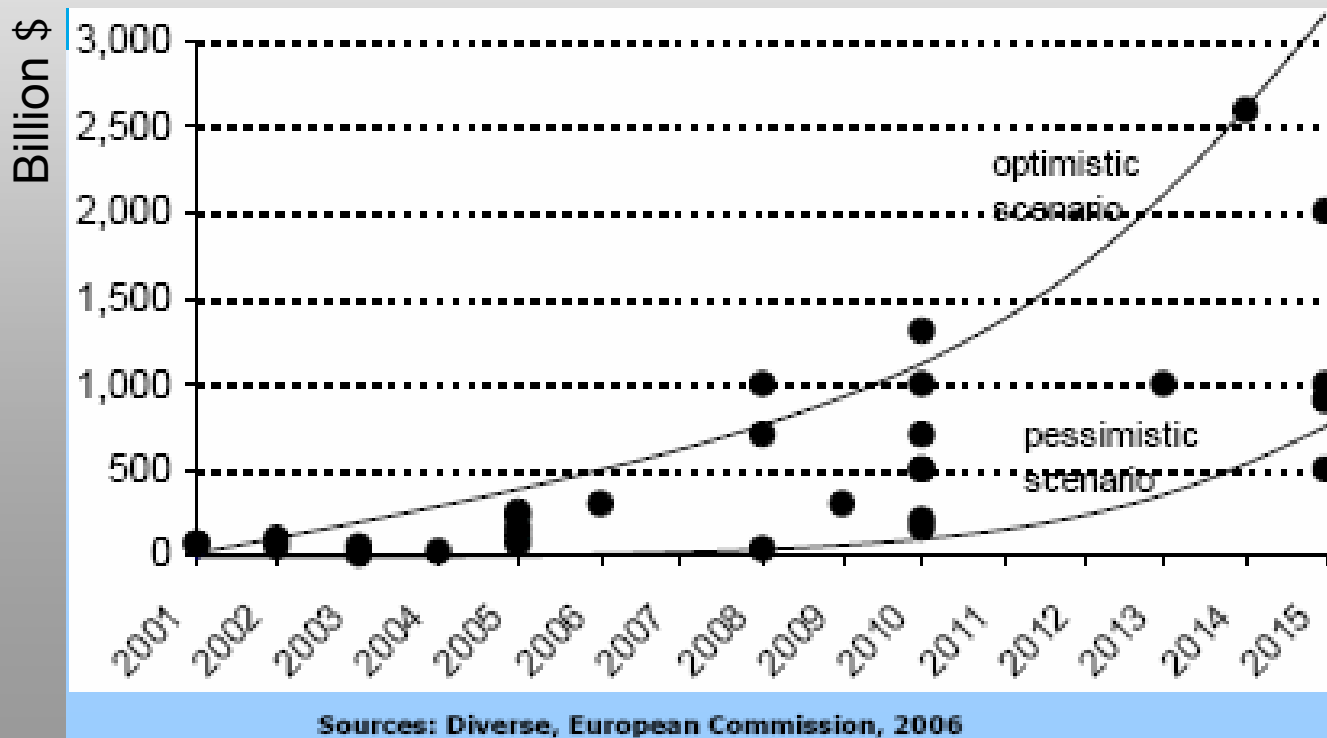
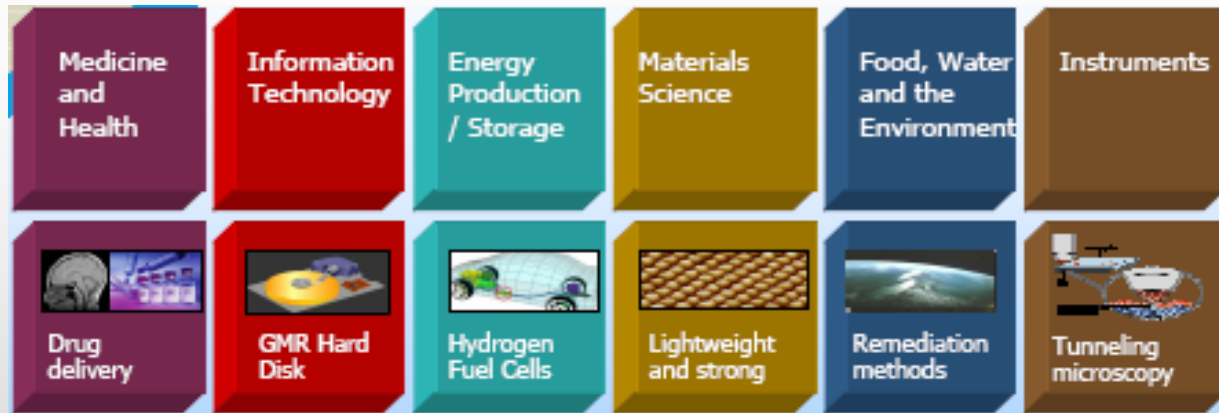
**EU FP7**  
**Nanosciences, Nanotechnologies, Materials**  
**& New Production Technologies**

**Melis YURTTAGÜL**

**EU FP7 NMP**

**National Contact Point**

# Why NMP is important?



# The European Policy in Nanotechnology



TÜBİTAK

integrated, safe and responsible

Health, safety,  
environmental  
and consumer  
protection

Societal  
Issues

Infrastructure

Research  
and

Development

Industrial  
Innovation

Human  
Resources

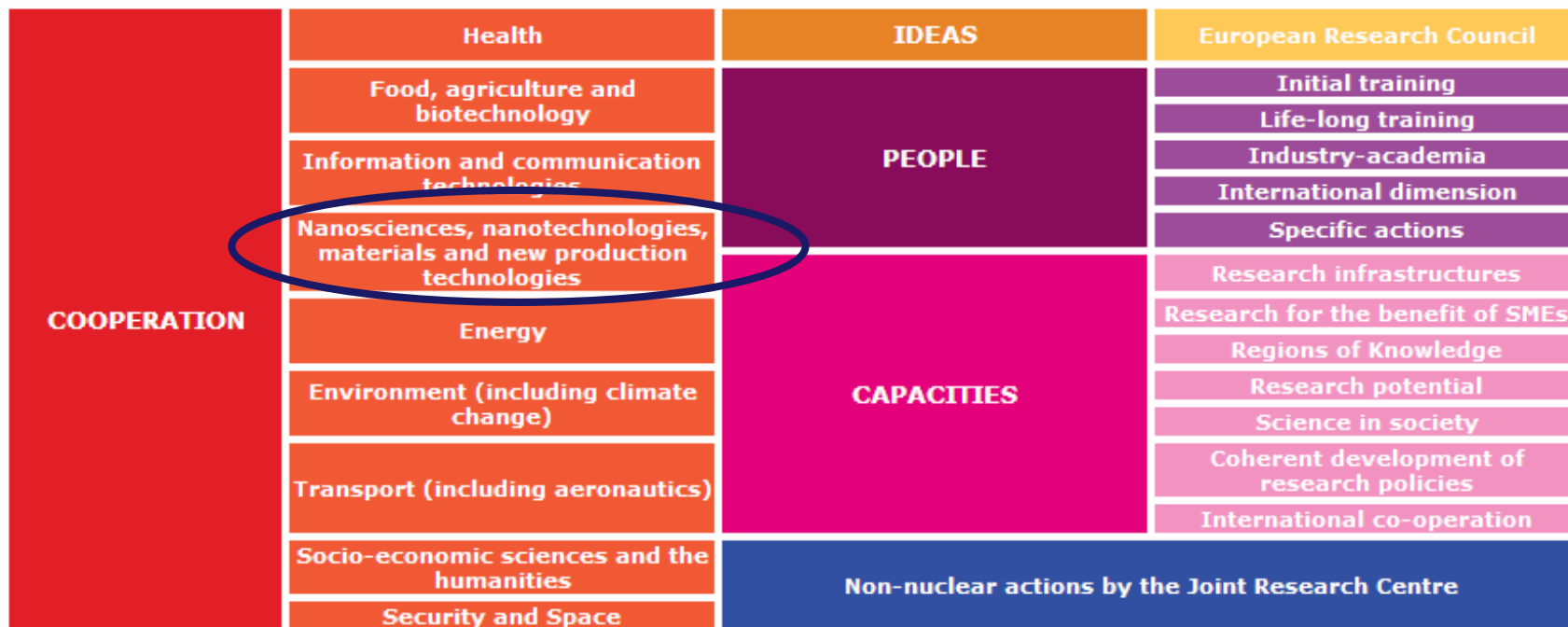
International  
Co-operation



# NMP in FP7



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Budget: 3.475 M € for 7 years



# Objective of NMP



*“to fund research and technology development (RTD) & coordination projects that will contribute to competitiveness of **industry**”*

***“from a resource-intensive to a knowledge intensive”***

- ✓ Produce high added value products, technologies & processes in a sustainable manner
- ✓ Create new companies and contribute to growth
- ✓ Integrate knowledge and new technologies in mature industries
- ✓ Generate new applicable knowledge
- ✓ Strengthen EU leadership in NMP areas
- ✓ *Emphasis on the integrating different technologies and disciplines across many sectors*



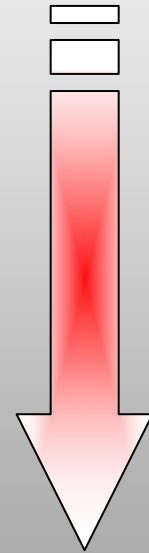
# Activity Areas



1. Nanosciences & Nanotechnologies
2. Materials
3. New Production Technologies

4. Integration  
(Technologies → Industry)

Generation of  
New Knowledge /  
Technologies



Exploitation to  
Industry



1. *Nanosciences and converging sciences*
2. *Nanotechnologies and converging tech.s*
3. *Health and Environment Impacts*

NANO

1. *Mastering nano-scale complexity in materials*
2. *Knowledge-based smart materials*
3. *Novel biomaterials and bioinspired materials*
4. *Advances in chemical tech.s and materials*
5. *Using eng'g to develop HP materials*

MAT.

6. *New industrial models and strategies*
7. *Adaptive production systems*
8. *Networked production*
9. *Rapid transfer and integration of new tech.s*
10. *Exploitation of the convergence of tech.s*

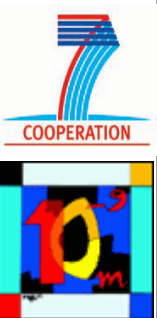
PRO.

# Related Disciplines

**Chemistry:** Polymerisation, surface chemistry and colloids, solid-state chemistry, Radio-chemical measurements, organic and inorganic compounds and metallurgy

**Physics:** Atomic and molecular physics, solid-state physics, plasma physics (C- nanotubes, micro-nano photonics-electronics-optics, super and semi-conductors, nano-crystals, thin films, simulations)

**Biology:** Biochemistry, Biotechnology (plant and pharmaceutical biotechnologies), molecular biophysics, molecular biology and genetics



# Related Disciplines

**Electronics Engineering:** Biomedical eng'g, micro-nano processors, electromagnetics, micro-nano electromechanical systems (MEMS, NEMS), robotics

**Chemical Engineering:** Chemical and biochemical reactors, catalysis, synthesis, zeolites, petrochemistry, process design and modelling

**Material Engineering:** Material Development and Design, Characterisation, Modelling, Simulation

As well as..

Pharmacology, Toxicology, Nanomedicine, Industrial Engineering



# Integration

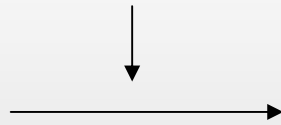


Various Sectors

NANO

MAT

PRO



INDUSTRY

- ❖ Transformation of traditional Industries:  
Dealing with low-cost competitive advantage
- ❖ Scale-intensive and special supply sector:  
Becoming a global leader
- ❖ Knowledge based industry:  
Exploitation of new products/materials/production systems
- ❖ Sustainable supply industry:  
Product and systems innovation



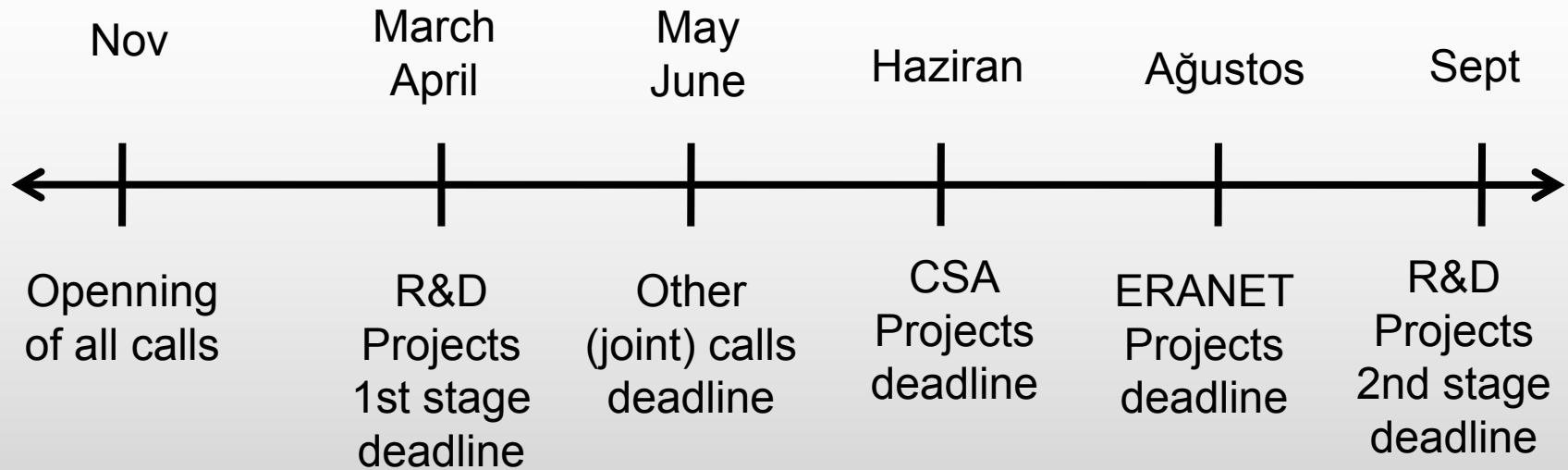
# Calls



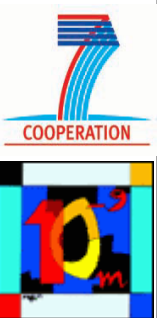
- Budget allocation & Calls wrt project types
  - FP7-NMP-2009-LARGE-3
  - FP7-NMP-2009-SMALL-3
  - FP7-NMP-2009-SME-3
  - FP7-NMP-2009-CSA-3
  
- Special INCO calls
  - For cooperation with RUSSIA
  
- Joint calls with other themes
  - FP7-2009-BIOREFINERY



# Calls



- 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)
- “GO” proposals will be invited to submit at Stage 2
- Stage 2: full proposals evaluated against all criteria



# The funding schemes in NMP



Small/medium research projects;

Max budget 4 M €

Large Scale Integrating Projects

Minimum budget 4 M €

SME targeted projects

35% of the EC contribution to SMEs

Coordination & Support Actions (CSA)

approx. 1-2 M €



# References



[http://cordis.europa.eu/nanotechnology/src/eu\\_funding.htm](http://cordis.europa.eu/nanotechnology/src/eu_funding.htm)

FP7: [http://cordis.europa.eu/fp7/home\\_en.html](http://cordis.europa.eu/fp7/home_en.html)

FP7 calls: <http://cordis.europa.eu/fp7/dc/index.cfm>

Nanotechnology homepage:

[http://ec.europa.eu/nanotechnology/index\\_en.html](http://ec.europa.eu/nanotechnology/index_en.html)

<http://cordis.europa.eu/nanotechnology/>

Nanosciences and Nanotechnologies:

“An Action Plan for Europe 2005-2009”

<http://cordis.europa.eu/nanotechnology/actionplan.htm>

Additional information on nanotechnology:

<http://www.nanoforum.org>



# Thank you!

**TUBITAK**  
**EU FRAMEWORK PROGRAMMES**  
**NATIONAL COORDINATION OFFICE**  
<http://www.fp7.org.tr>

**MELIS YURTTAGUL**

Tel : (0312) 468 53 00 - 1097

Fax : (0312) 427 40 24

<http://www.fp7.org.tr/nano>



[ncpnano@tubitak.gov.tr](mailto:ncpnano@tubitak.gov.tr)  
[melis.yurttagul@tubitak.gov.tr](mailto:melis.yurttagul@tubitak.gov.tr)  
[fp7@tubitak.gov.tr](mailto:fp7@tubitak.gov.tr)