

Romania in “ERA” of Micro Nano Technologies MNT-ERA.NET

Bucharest 18th December 2010



mnt-era.net

What is MNT ERA-Net ?

- large European network of national & regional funding programmes for micro and nano technologies (MNT)
- each represented by a funding agency or ministry
- combined annual public budget of 400 M€
- many programmes are targeted at industry

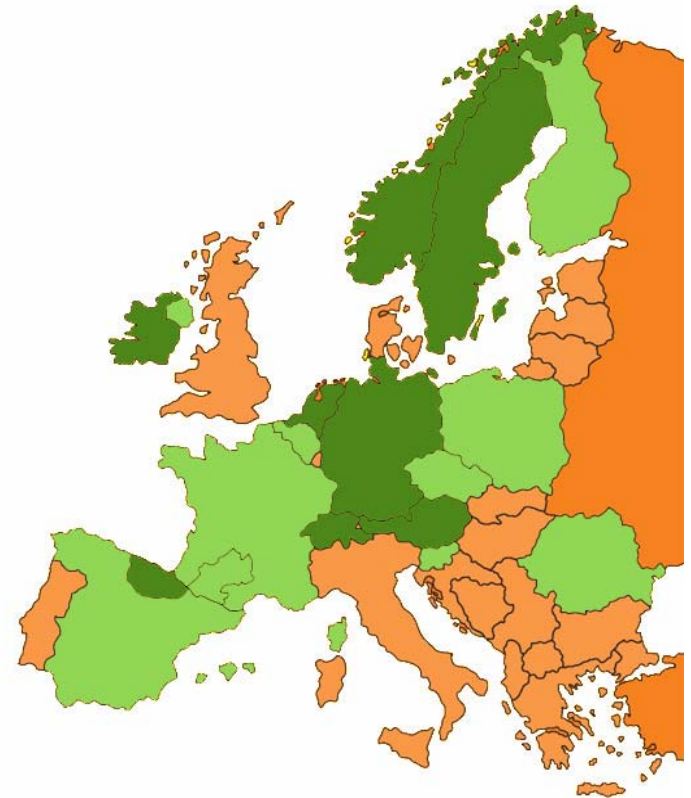
FP6&FP7 projects

(Coordinator: FFG, Austria)

Consortium:

24 partners

from 21 countries / regions



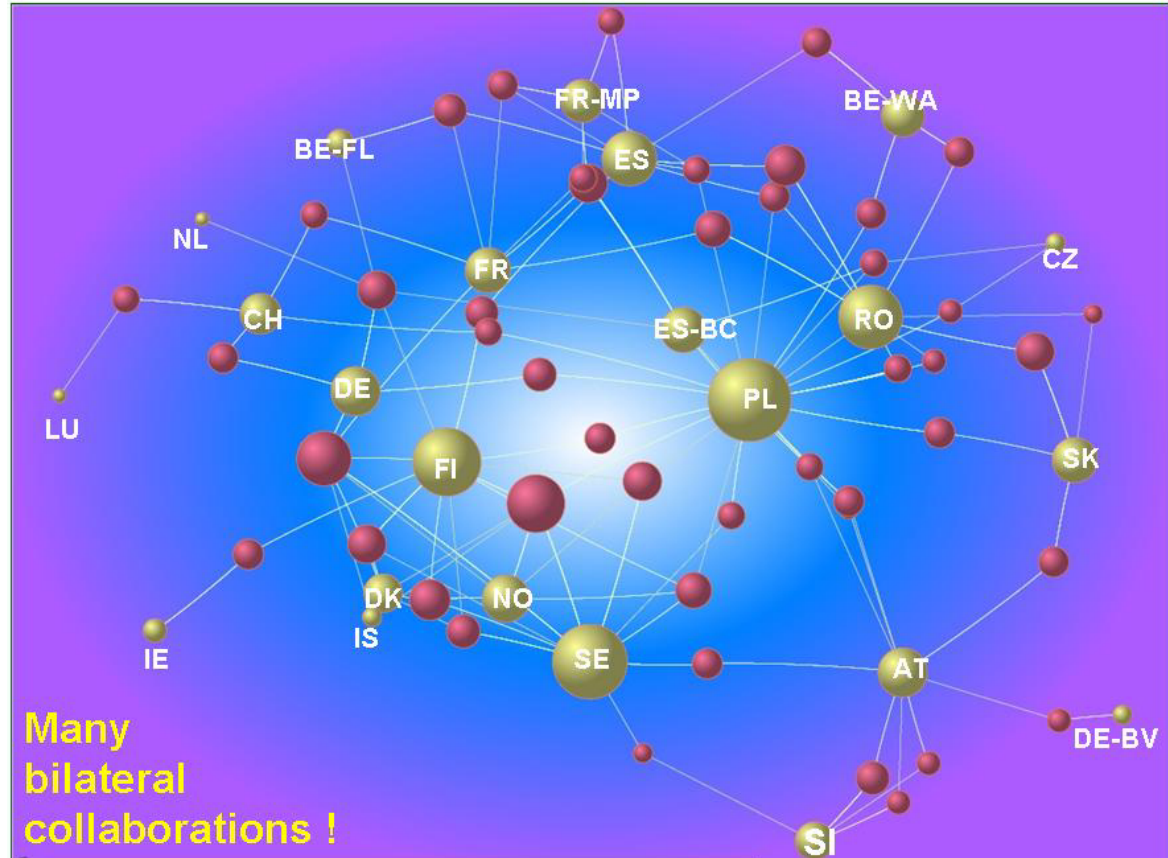
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Why do we need MNT ERA-Net ?

- Micro and nano technologies are key enabling technologies of the 21st century and the global market is growing rapidly.
 - Europe has a strong R&D base in many MNT areas but its **funding programmes are fragmented** and dispersed among many national and regional funding bodies.
- **MNT ERA-Net stimulates close and long-term cooperation between national funding programmes (focusing on applied RTD) to improve and complement the European funding portfolio**



State of the art



Romania's participation in MNT ERA.NET

- 2005 – 2008 Polytechnic University of Bucharest, programme MATNANTECH
- 2008 – 2011 National Centre for Programmes, Management, programme

Partnerships in S&T Priority Domains

D1 Information & Communication Technology

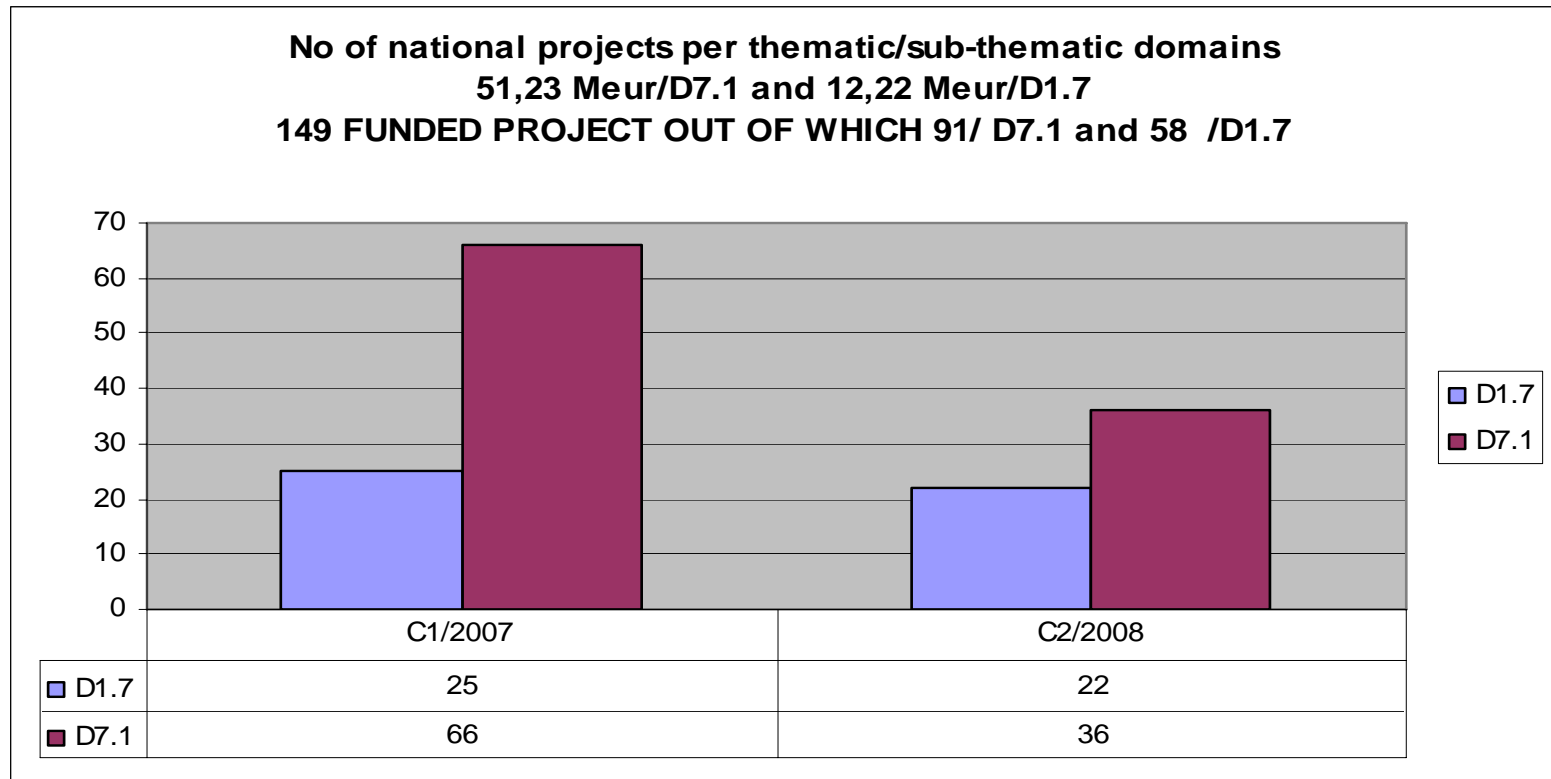
- D1.7 Nanoelectronics, photonics and integrated microsystems

D7 Materials, technologies and innovative products

- D7.1 Advanced materials

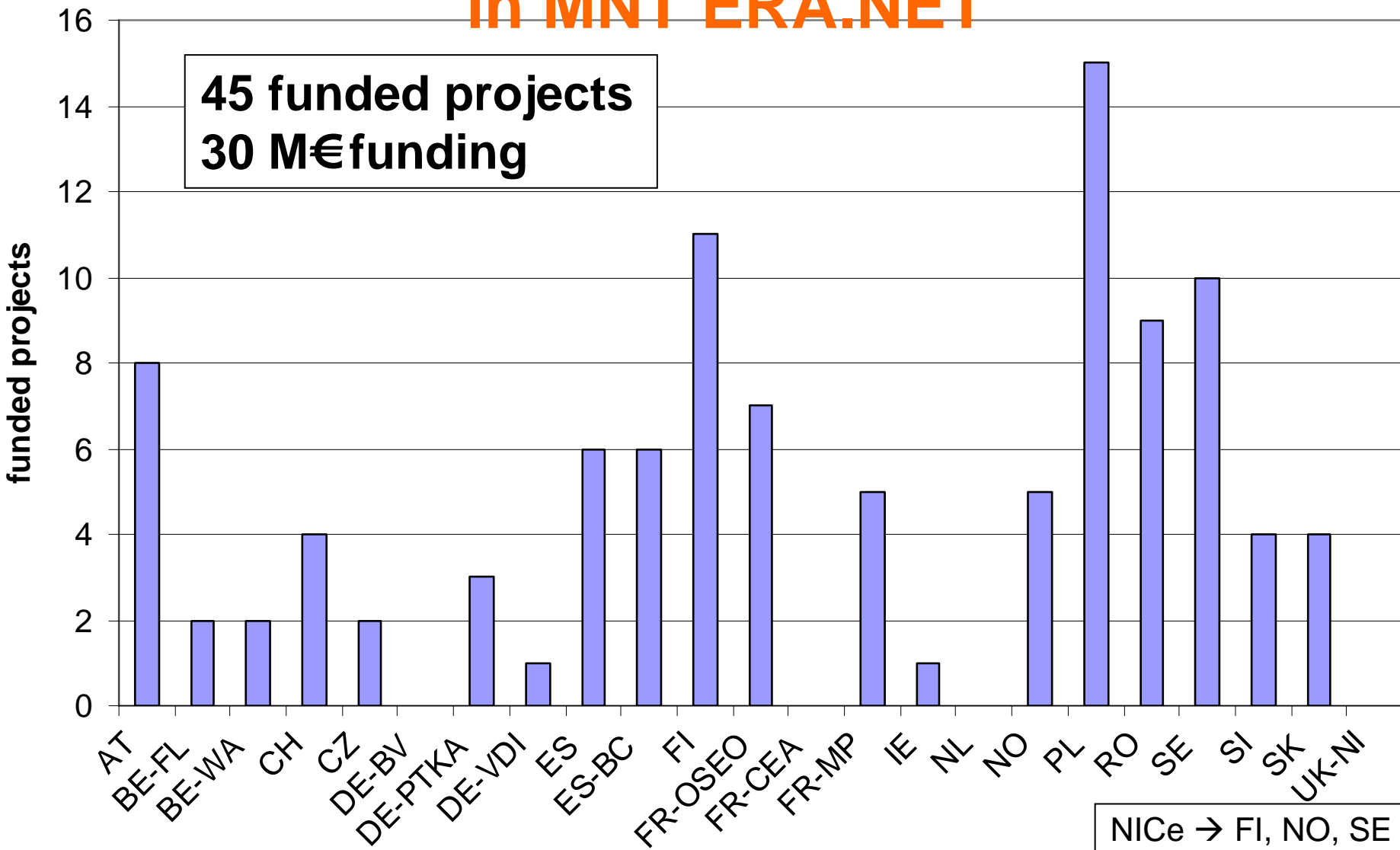


National projects in the Micro Nano (Partnerships Programme)



Performance of Joint Calls 2006-2008 in MNT ERA.NET

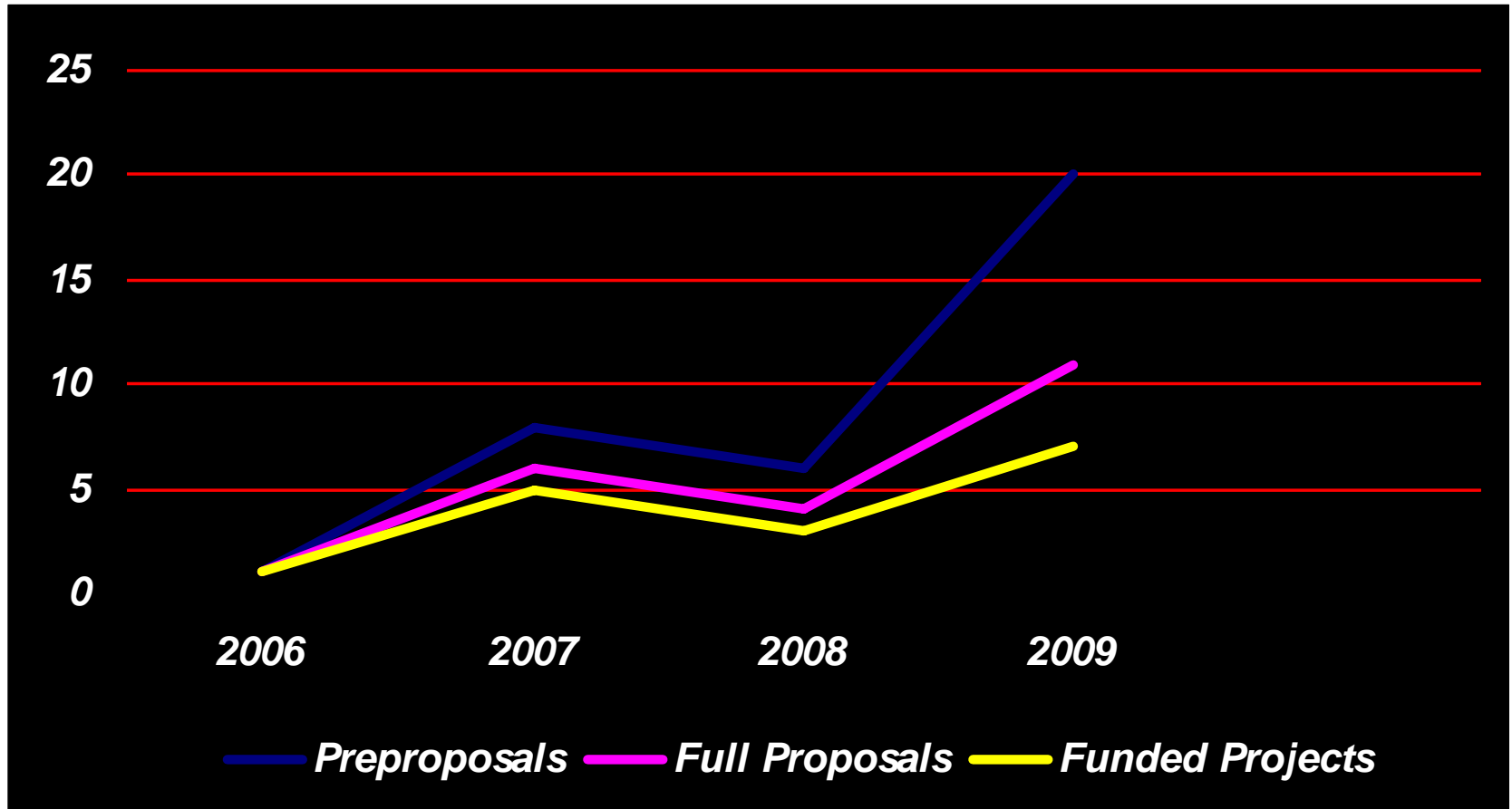
45 funded projects
30 M€ funding



NICe → FI, NO, SE

Progress beyond the state of the art

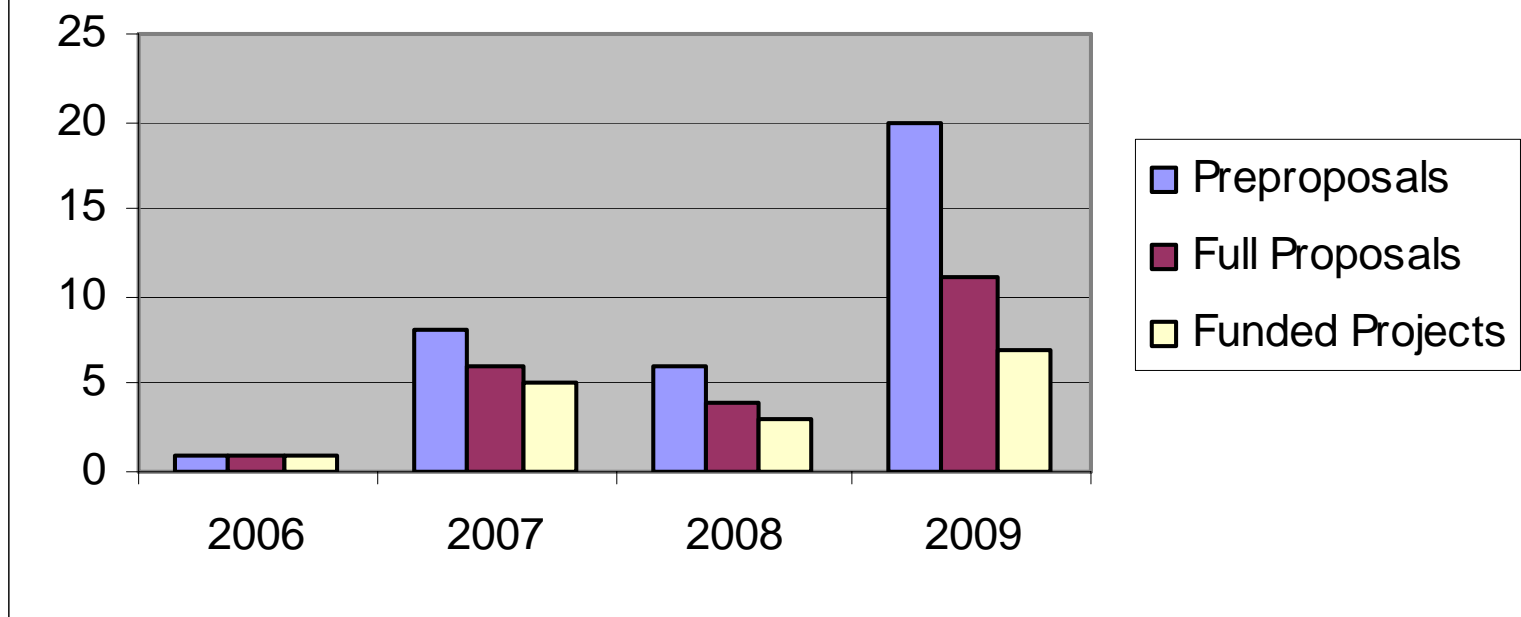
Romanian participation



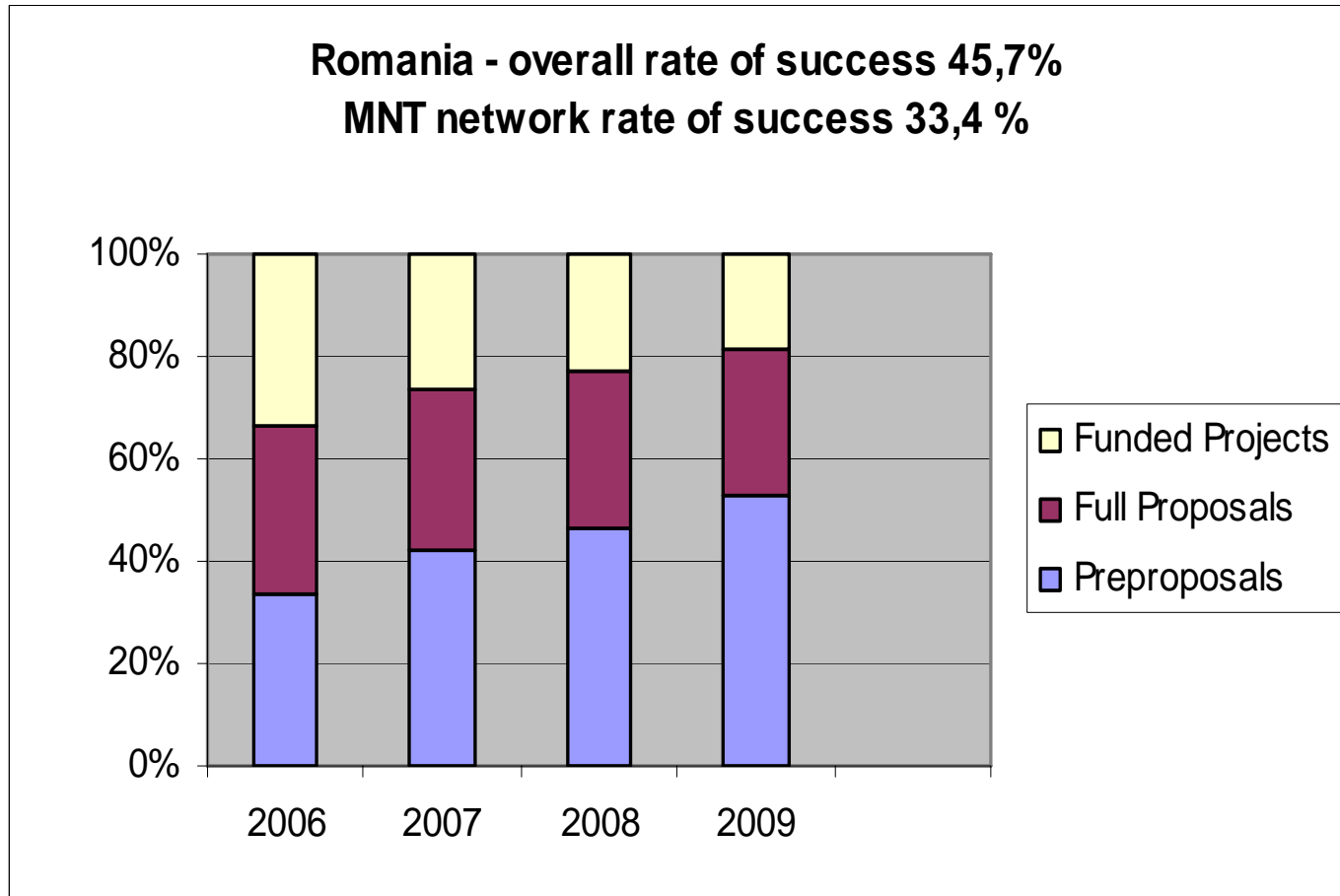
Romania's participation in MNT ERA.NET- Joint calls

2006&2007&2008&2009

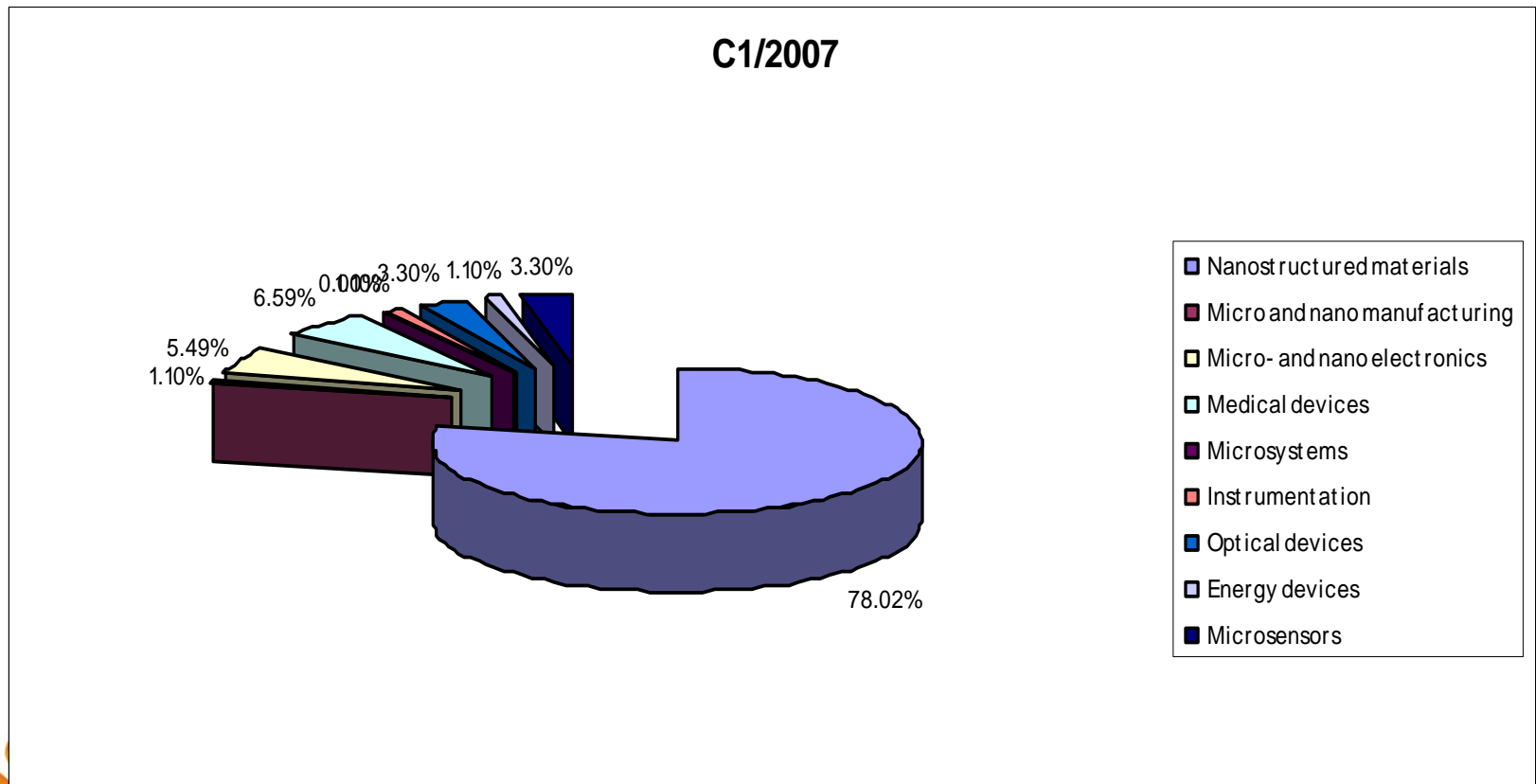
**16 funded projects
involving 36 organisations
4.064.000 EUR budget
3.638.000 EUR funding**



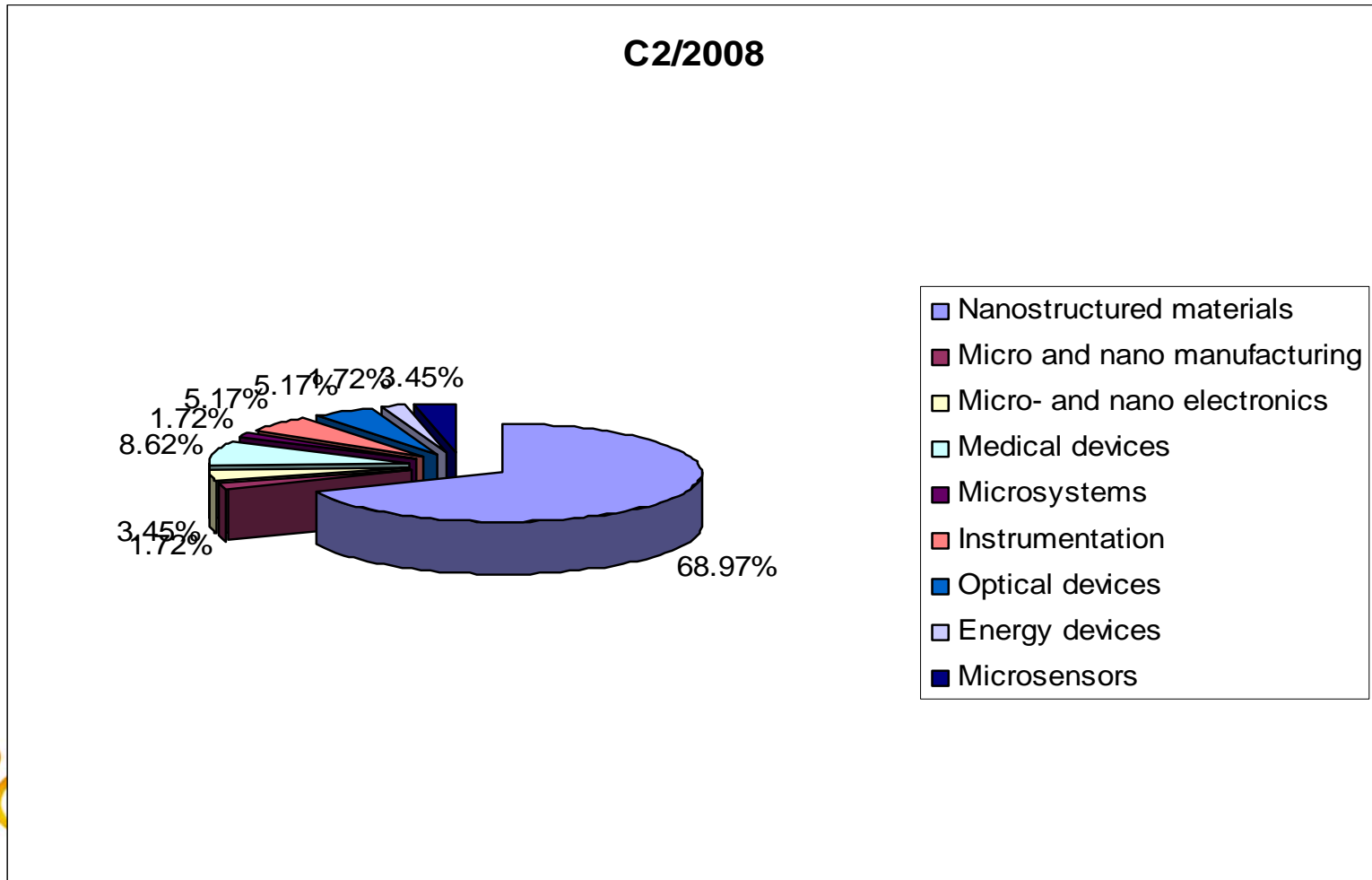
Romania – joint calls performance



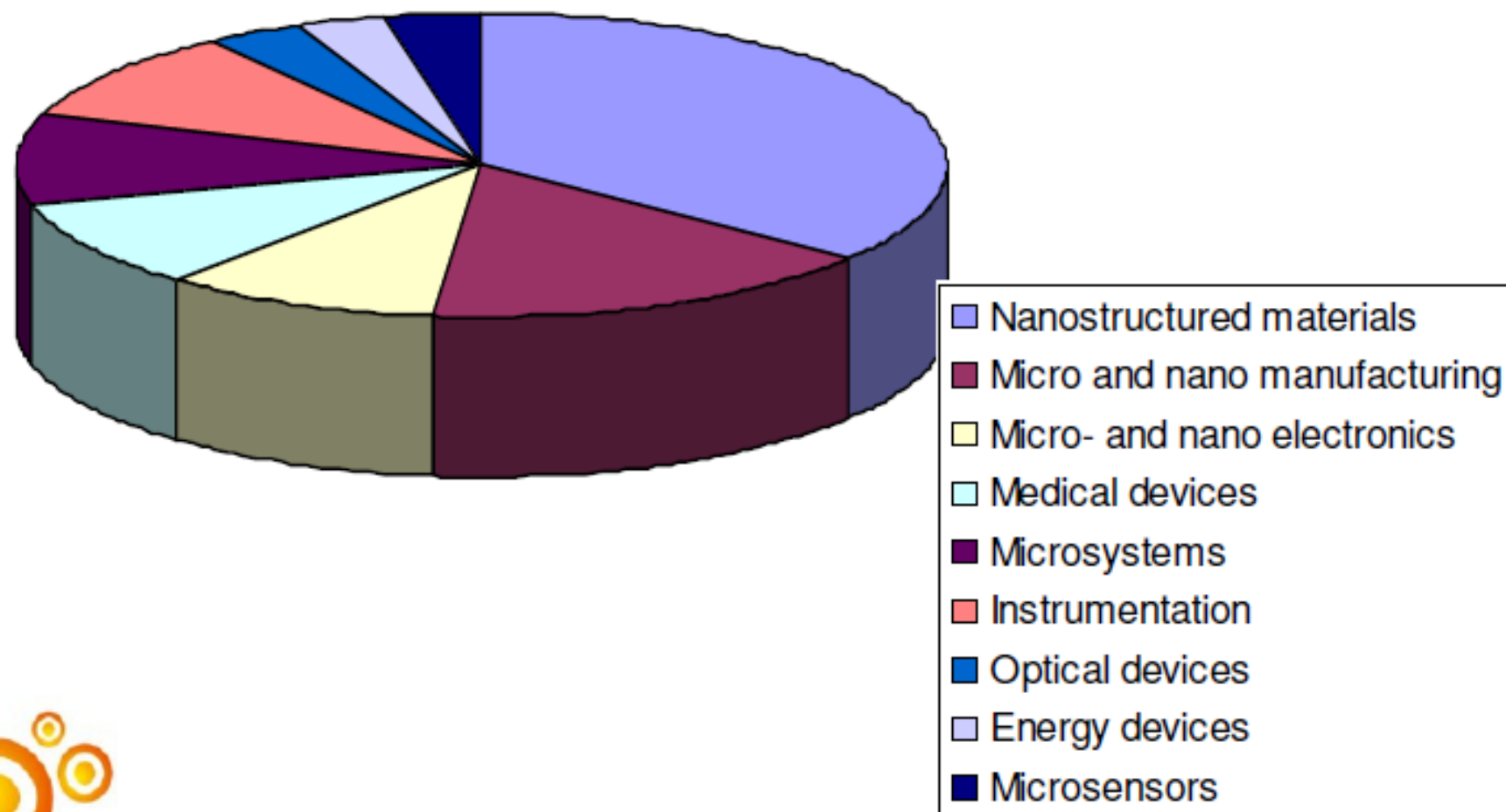
Topics of the national projects (1)



Topics of the national projects (2)

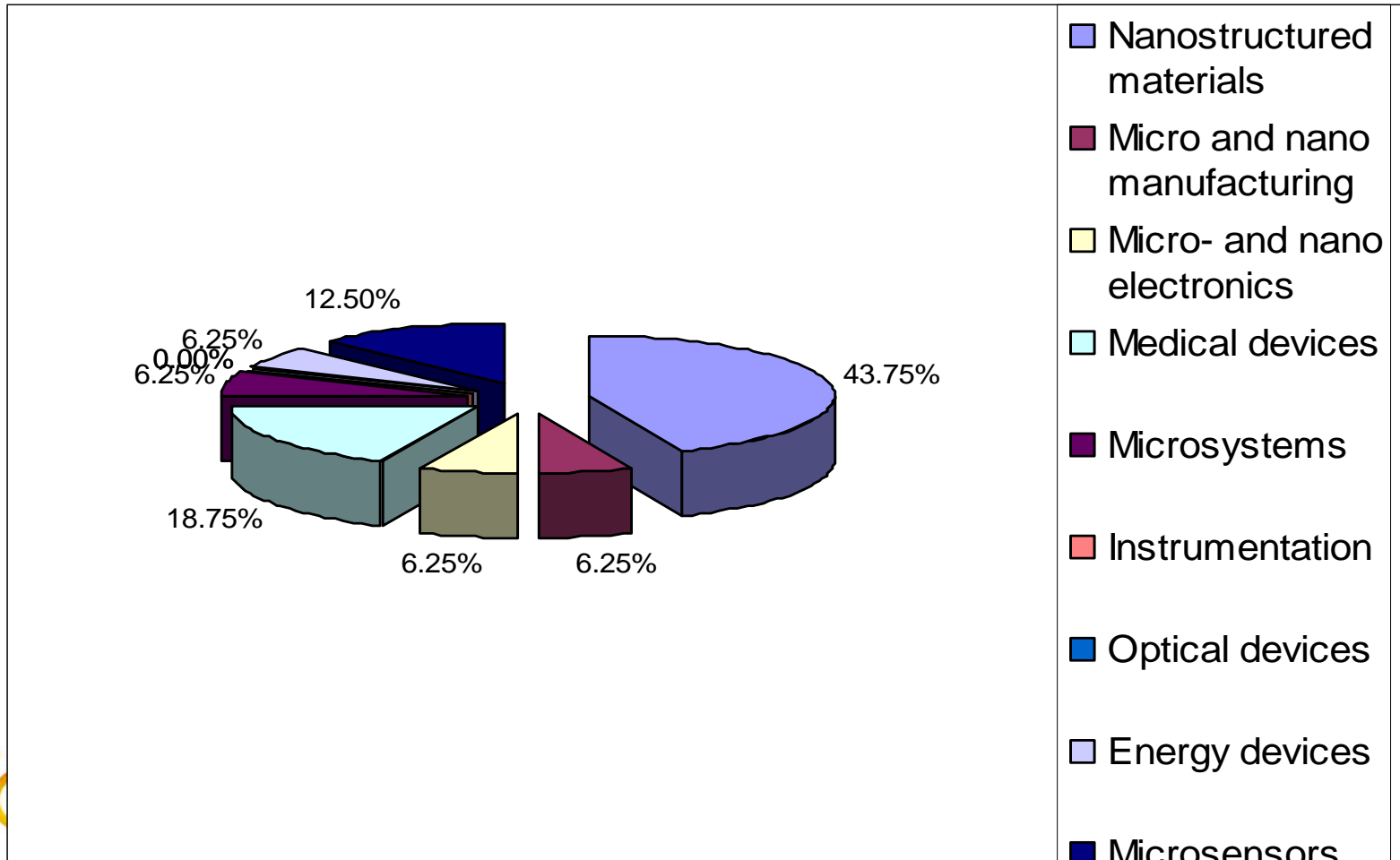


Call 2008: topics of pre-proposals

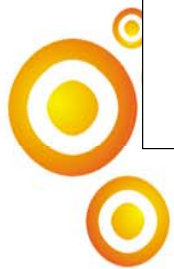
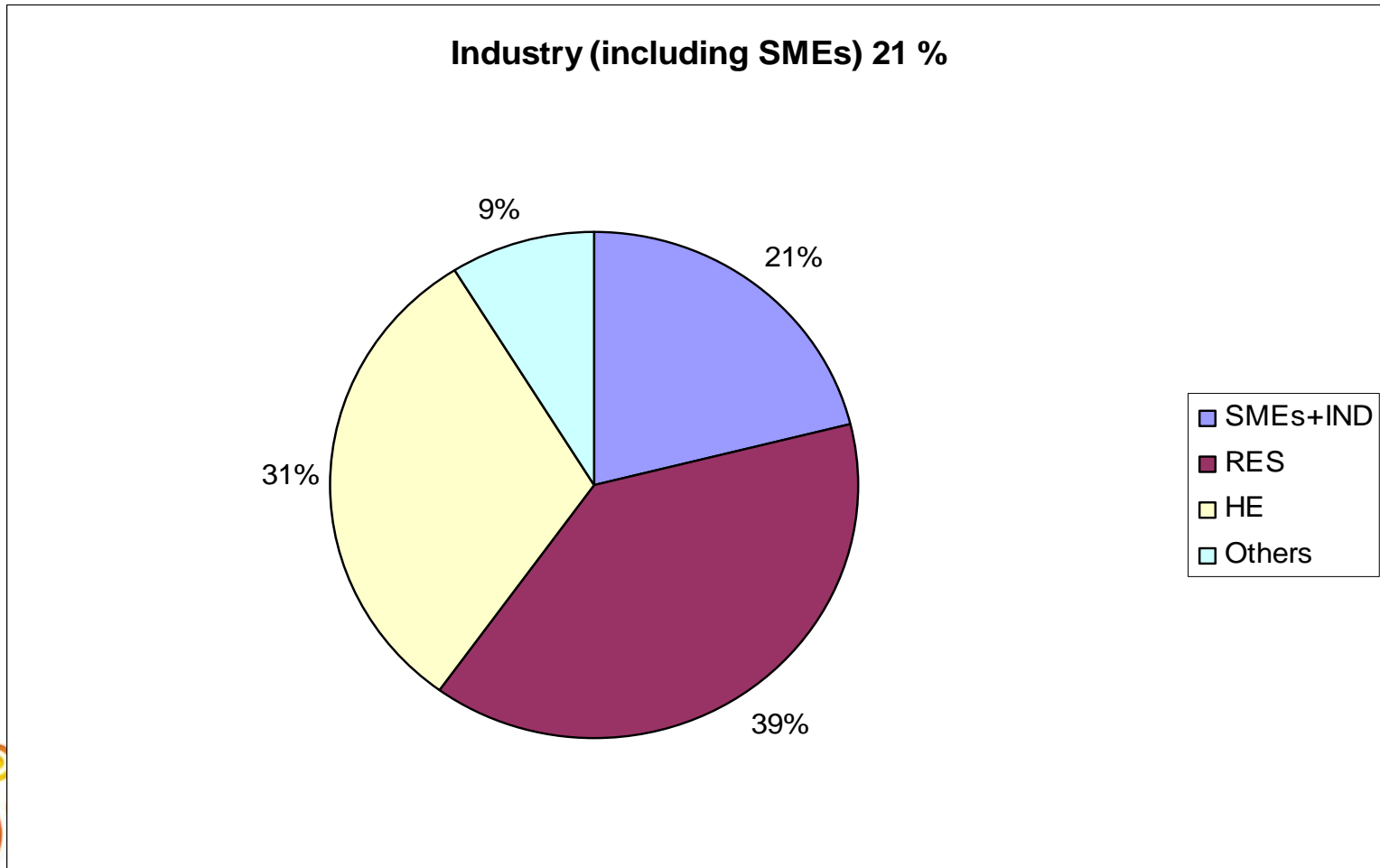


Romania's participation in MNT

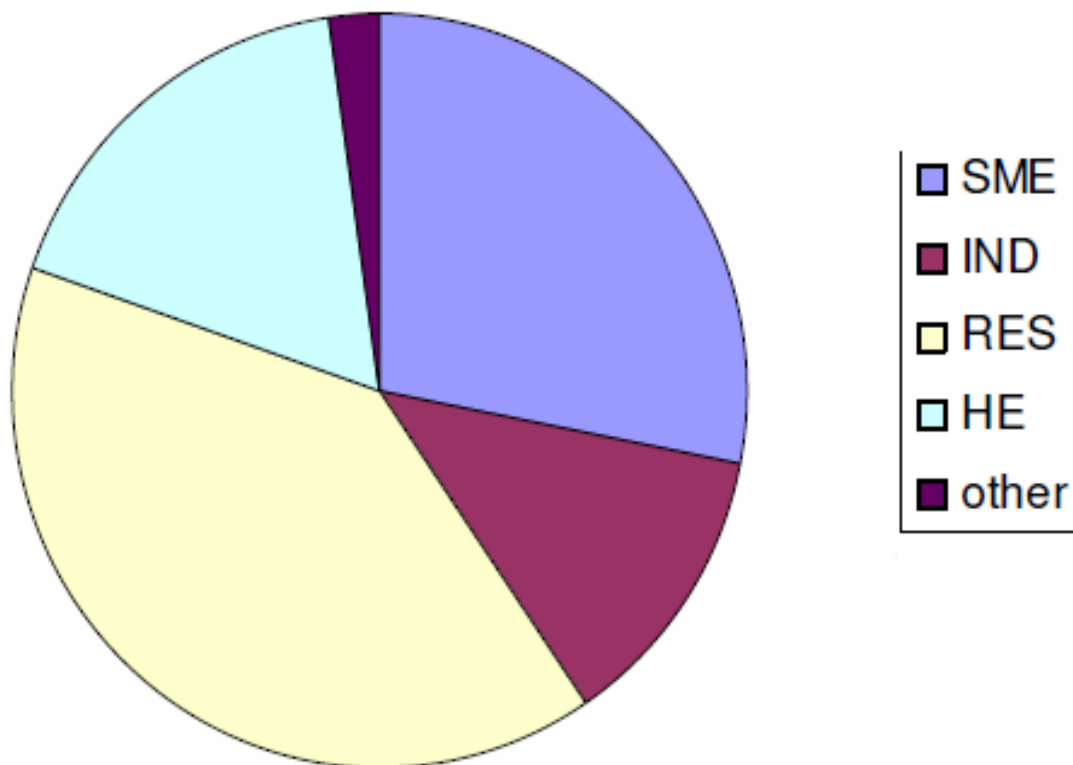
ERA.NET –topics of funded projects



National projects, type of partners



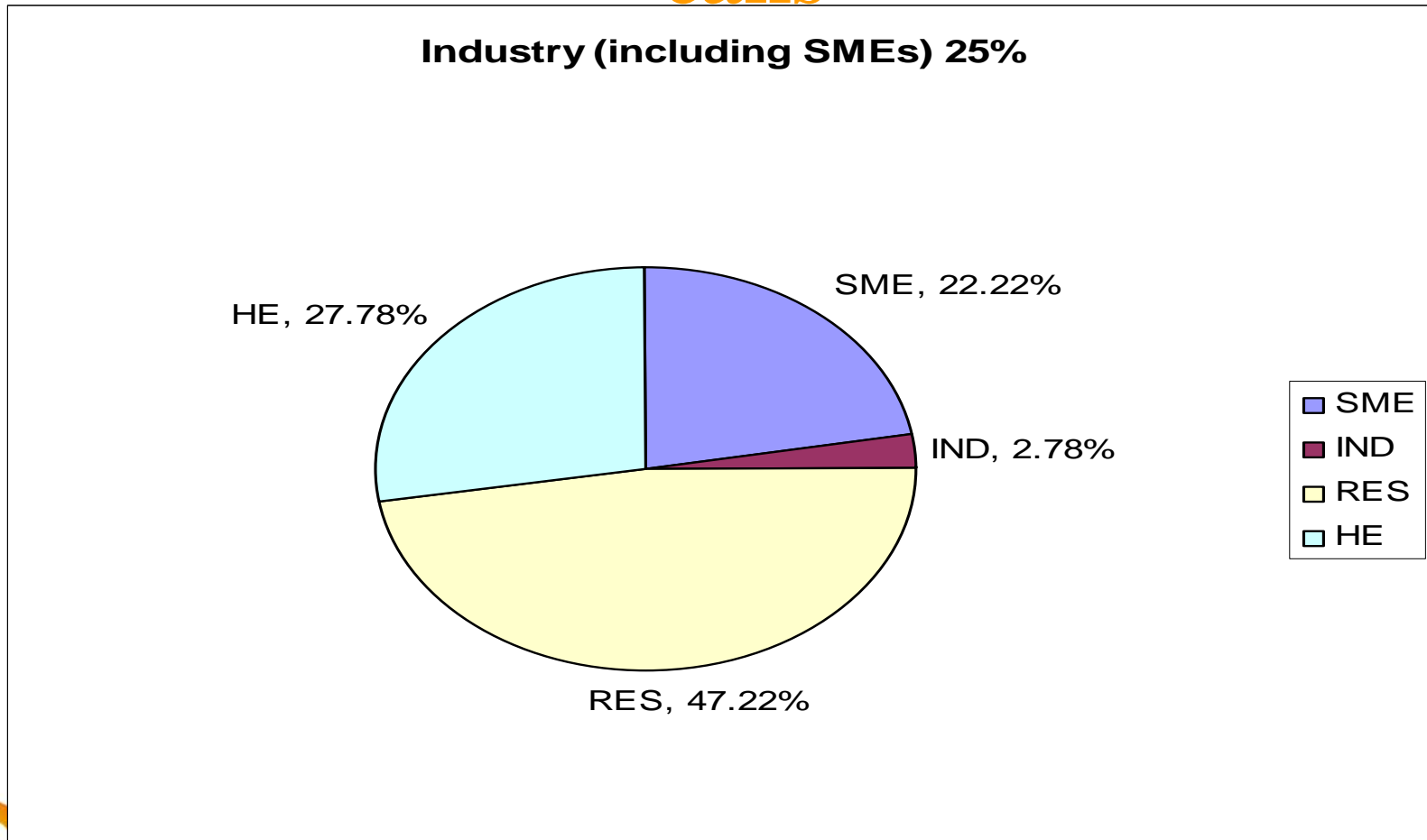
Calls 2006 & 2007 & 2008: type of partners



→ 40% industry (incl. SME)

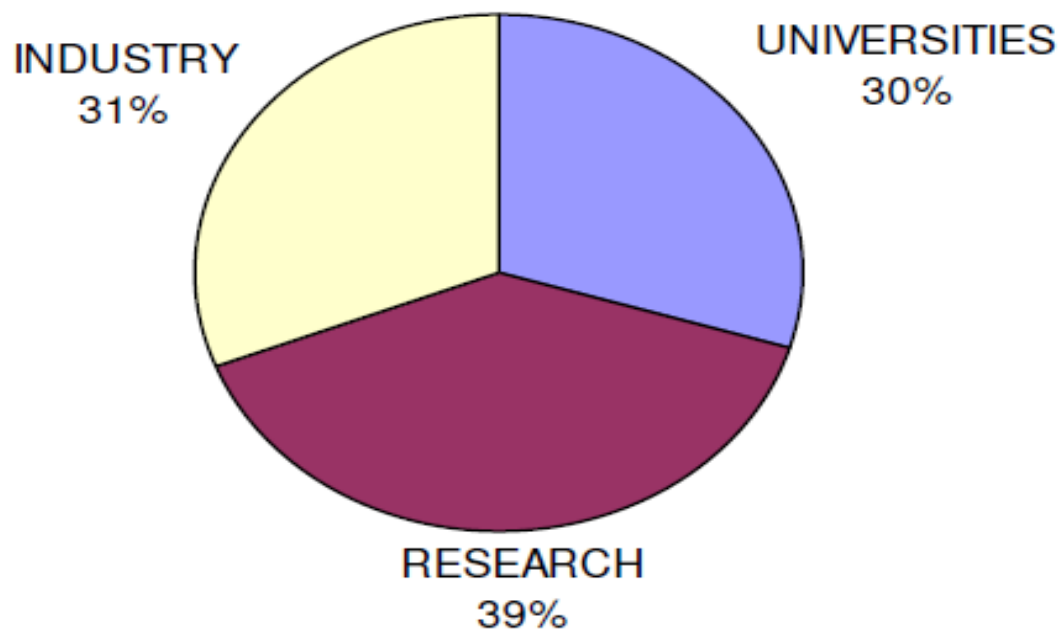


Romanian participants in MNT joint calls



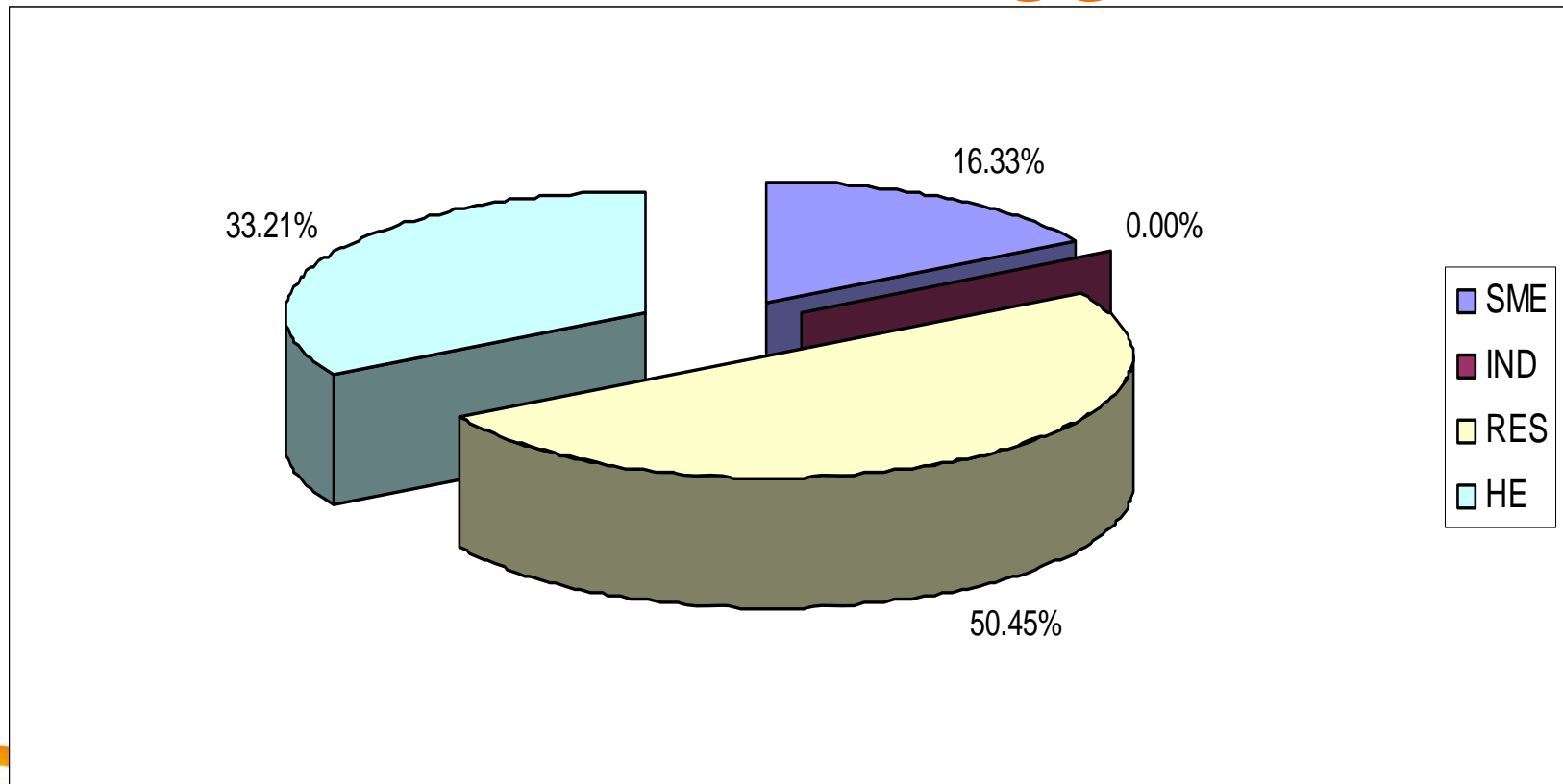
MNT Network

Call 2007: where did the funding go ?



Romania

overall participation in MNT joint calls- where did funding go ?



MNT Network

What are the benefits for clients ?

- **large network** of 20 participating countries and regions
- **complement** the portfolio of other programmes
- **close relations** between funding agencies and clients
- **low administrative barriers** → especially attractive for SMEs
- accelerated, synchronised and **coherent funding decisions**
- **high success rate**

→ attractive channel for R&D projects

MNT ERA-Net encourages the participation of newcomers and small consortia.



Romanian participation in MNT ERA.NET

What are the benefits for clients ?

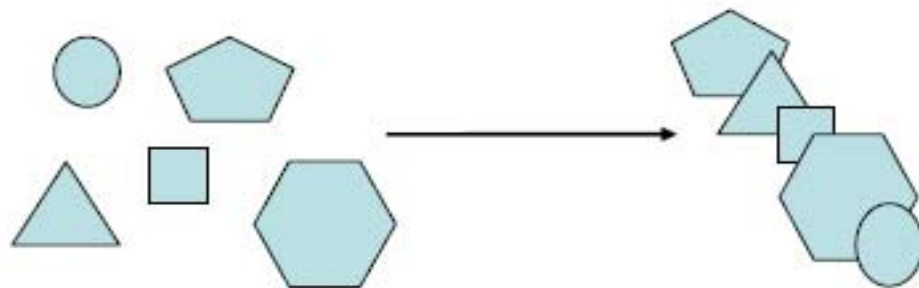
- **European networking**
- **Complement the portfolio of other projects**
- **Access to partner's infrastructure**
- **Collaborative development of “hot” themes**
- **R&D projects market oriented (up to 3 years)**

**Small consolidate consortia for further applications to FPs projects
Experience as international projects coordinators**



Benefits and challenges for funding agencies

- awareness and consideration of various national programme details
 - flexible and well accepted approach to transnational calls
 - low bureaucracy
 - large network → critical mass, stable procedures
 - added value for all participating programmes through shared analysis
 - good basis for sustained cooperation
- **opportunities for streamlining of national programmes**

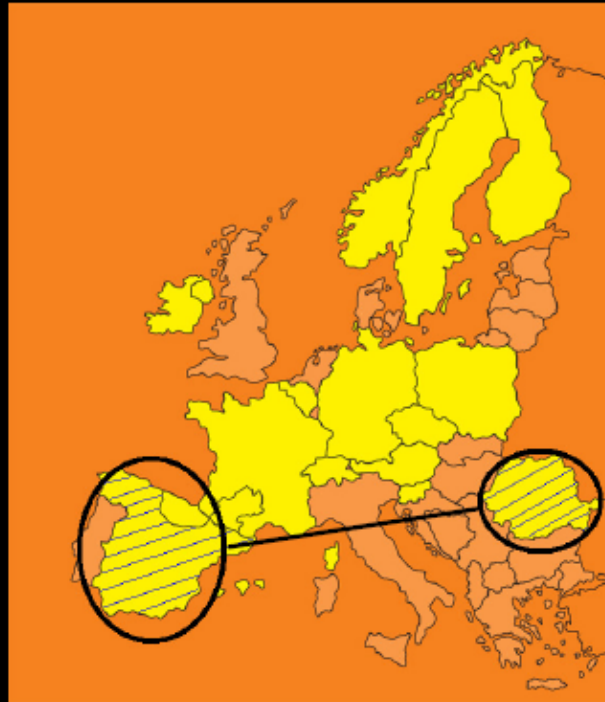


Example: Bilateral project financed in the joint call 2006



Agustín Santana López

Julia Claudia Mirza Rosca



Agustín Santana López

Julia Claudia Mirza Rosca



MULTIFUNCTIONAL NANOSTRUCTURED TITANIUM IMPLANT SURFACES AND BIOMECHANICAL CONSIDERATION OF ANIMAL MODELS USED IN TISSUE ENGINEERING OF BONE

MNT - IS

Las Palmas de Gran Canaria – SPAIN

Noviembre 2006

for tissue regeneration,
- to develop better biomechanical nanostructural testing systems;
- to find the right animal model for the osteoinductive biomaterials.

HCV



-UPB (Bucarest)
-UTI (Iasi)
-ICF (Bucarest)
-R&D (Bucarest)
-ZIROM S.A. (Giurgiu)



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Contractual Procedures/contracting

- NCPM –the Funding Agency for MNT joint calls
- Funding programme: Partnerships in S&T Priority Areas
- NCPM – each Romanian consortium

Standard contract + English version of the project +
Consortium Agreement

Contract concluded for the whole duration of the project but,
annual budgets must be confirm, on a yearly basis

www.cnmp.ro/int



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Contractual Procedures/monitoring

- Technical/scientific monitoring against the workplan, objectives, expected results

(project officer)

- Financial monitoring against the financial plan/budget

(project officer + financial officer)



Contractual Procedures/reporting

- 6 monthly/yearly technical and financial reports,

but,

- Compulsory at the end of the budgetary year
- Final report (Partnerships programmes procedure+ summary in English for MNT consortium)



Contractual Procedures/payments

- Pre financing -30% of the annual budget
- Interim payments based on interim evaluation reports
 - » Monitoring reports
 - » External evaluation reports



.....Conclusions

- Is there a critical mass to justify a Romanian strategy in the field of NanoSciences and Nano Technologies ?
- Could Romania contribute/has the potential to contribute to the EC Action Plan 2010 – 2015 in the field of NanoSciences and Nano Technologies ?

**Through the Romanian participation in MNT
ERA.NET “window”:**

YES!



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Thank you very much!

Speranta Rasan

National Centre for Programmes Management

International Partnerships

+4 021 3119595

Speranta_rasan@cnmp.ro

www.cnmp.ro/int



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