

***“New Materials, Micro and  
Nanotechnologies – MATNANTECH”***

**Romanian R&D National Programme  
2001-2006**

# MATNANTECH (structure)

## New materials

**Subprogram 1:** Composite materials

**Subprogram 2:** Smart materials

**Subprogram 3:** Biosubstances and biomaterials

**Subprogram 4:** Advanced materials with electrical, optical, magnetic and thermomechanic properties

**Subprogram 5:** Materials for process engineering, chemical and environmental applications

**Subprogram 6:** Powders synthesis and characterization

## Micro, Nanotechnologies

**Subprogram 7:** Micro and nanoelectronics and optoelectronics

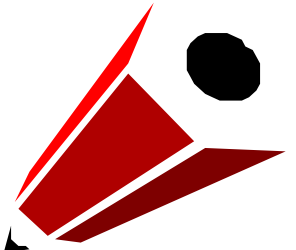
**Subprogram 8:** Micro and nanotechnologies for interfaces, transducers and microsystems

**Subprogram 9:** Nanostructured materials, micro and nanostructures

## Support actions, Networks, centers

**Subprogram 10:** Support actions, Thematic networks, centers of excellence

# Figures and Facts



- 269 projects, 9 priority projects ( One for Domain Strategy's)
  - 259 collaborative projects; 10 single participant
- 191 organizations
  - » 54 research institutes
  - » 24 universities
  - » 23 large enterprises
  - » 90 SMEs
- 1512 researchers (920 full time), 408 young researchers
- 17.2 M € overall budget (2001 - 2006)
- 18.8 M€ total budget (2001-2006)

# European Partnership



## EU-FP6

1. Life sciences, genomics and **biotechnology** for health
2. **Information society technologies (IST)**
3. **Nanotechnologies and nanosciences, knowledge based multifunctional materials and new production processes and devices**
4. Aeronautics and space
5. Food quality and safety
6. Sustainable development, global change and ecosystems
7. Citizen and governance in a knowledge-based society



**MATNANTECH**

# MATNANTECH and ERA

- **MNT-ERA Net „From Micro- and Nanoscale Science to New Technologies for Europe“ (2004-2008); Coordination Action**
- **Participants:**
  - EUROBULEGOA (Basque Government)
  - EI Enterprise Ireland (Ireland)
  - SENTER (Netherlands)
  - TEMAS (Switzerland)
  - RCN The Research Council of Norway
  - VDI/VDE-IT (Germany)
  - VINNOVA (Sweden)
  - FFF (Austria) – project management
  - Austrian Space Agency (ASA)
  - TEKES (Finland)
  - **UPB-MATNANTECH (Romania) (2005-2008)**
  - Ministry of Wallonia Region (Belgium)
  - Ministry of Education, Science and Sports (Slovenia)
  - Ministry of Scientific Research and IT (Poland)
  - Conseil Regional Midi-Pyrenees (France)



# Conclusions

- Small budget;
- A very good strategic vision on the domain development;
- Very good competencies;
- Good correlation with FP6;
- A big step toward development of micro and nanotechnologies in Romania



EUROPEAN  
COMMISSION

Community research

## Programme coordination for efficiency

Nature shows us the way: Birds coordinating their efforts

71 % gain of efficiency



Under FP6 ERA-NET scheme Romania has already *“taken off”*...

- Partner in 13 ERA-NETs (> 18% of all)
- Participation in joint calls (e.g. SEE ERA)
- Funding of trans national projects of these calls (e.g. MNT)
- Promising pilot actions (MANUNET)

... lets continue to *“fly together”*



***Thank you for your attention***

***Corneliu TRISCA-RUSU***

***Executive Manager MATNANTECH***

***corneliu.trisca@imt.ro***

***ctrisca2002@yahoo.com***