



Austria/Belgium/Czech Republic/Finland/France/Germany/Ireland/Norway/Poland/Romania  
/Slovakia/Slovenia/Spain/Sweden/Switzerland/The Netherlands/United Kingdom

# *The Workshop for European Transnational Collaborations*

## *From Micro- and Nanoscale Science to New Technologies for Europe*

### *Swiss National Event*



[mnt-era.net](http://mnt-era.net)

Austria/Belgium/Czech Republic/Finland/France/Germany/Ireland/Norway/Poland/Romania /Slovakia/Slovenia  
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# Agenda

- |                |  |   |
|----------------|--|---|
| 11:45 - 11:55h | Introduction to MNT ERA-NET  | K. Höhener  |
| 11:55 - 12:35h | Presentation of Swiss partners   |   |
|                | <ul style="list-style-type: none"><li>▪ Nanosurf AG</li><li>▪ Mecatext AG</li><li>▪ EMPA, Material Science and Technology</li><li>▪ EPFL, Ecole Polytechnique Fédérale de Lausanne</li></ul>   | Dr. L. Scandella<br>Dr. Y. Mabilard<br>Prof. L. Schlapbach<br>Prof. H. Vogel                        |
| 12:35 - 13:35h | Presentations of European partners   |   |
|                | <ul style="list-style-type: none"><li>▪ CR Midi-Pyrenees (Toulouse/France)</li><li>▪ Enterprise Ireland, CTO Nanotech</li><li>▪ Research Topics and Collaboration Opportunities with Romania</li><li>▪ NanoNet Styria (Austria) presented by JOANNEUM RESEARCH</li><li>▪ MHEST, Ministry of Higher Education and Science, Slovenia</li></ul> | Prof. H. Dexpert<br>Dr. R. Flood<br><br>Dr. C. Trisca-Rusu<br><br>Dr. F. Sinner<br><br>Dr. B. Jenko |
| 13:35 - 14:15h | Parallel workshop sessions covering the 10 presented topics  |   |



# Introduction to MNT ERA-NET

**1- What is ERA-NET?**

**2- What is MNT-ERANET?**

**3- Who is involved in MNT-ERANET?**

**4- The future in the mid-term**

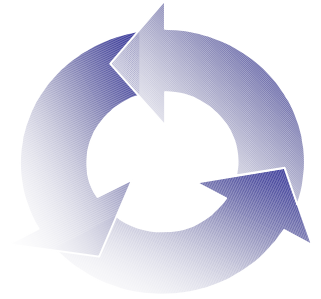
**5- Benefits for applicants**





EUROPEAN  
COMMISSION

Community Research



## WHAT IS ERA-NET?

- **The objectives of the EC are:**
  - **networking** of programmes including
  - mutual **opening** and the
  - development and implementation of **joint activities**



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## WHAT IS ERA-NET?

**MOBILIZING NATIONAL AND REGIONAL  
RESEARCH PROGRAMMES  
TOGETHER WITH THE EC IN ORDER TO OFFER JOINT CALLS  
BETWEEN DIFFERENT COUNTRIES**

**A KEY BRICK FOR THE CONSTRUCTION OF THE EUROPEAN  
RESEARCH AREA (ERA), AVOIDING THE FRAGMENTATION  
OF RESEARCH EFFORTS**



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## WHAT IS MNT-ERANET?

**IS A 4-YEAR COORDINATION ACTION WITHIN  
THE ERA-NET SCHEME BETWEEN 21 EUROPEAN COUNTRIES**

**IT COVERS THE FIELDS OF  
MICROTECHNOLOGIES, NANOTECHNOLOGY AND  
MICROSYSTEMS**

**MNT-ERANET IS EXPECTED TO IMPACT SIGNIFICANTLY  
ON FUTURE ECONOMIC AND SOCIAL DEVELOPMENT  
(THE JOINT ANNUAL BUDGET AMOUNTS TO 365 M€)**



## The focus of the MNT ERA-NET covers:

- \* **Medicine devices** (e.g. stents)
- \* **Optical devices**
- \* **Energy** (energy storage, photovoltaic, fuel cells, batteries)
- \* **Actuators and sensors**
- \* **Instrumentation** (AFM, holographic instruments, calibration)
- \* **MEMS, MOEMS, NOEMS, NEMS**
- \* **Manufacturing** (machining, LIGA, lithography, structuring, tribology)
- \* **System integration**
- \* **Materials** (e.g. functionalisation, surface structuring, replication, composite)
- \* **Nanoelectronics**
- \* **Simulation modelling**
- \* **Biotechnology** (e.g. sensors, delivery systems, Lab-on-a-chip)





**1- What is ERA-NET?**

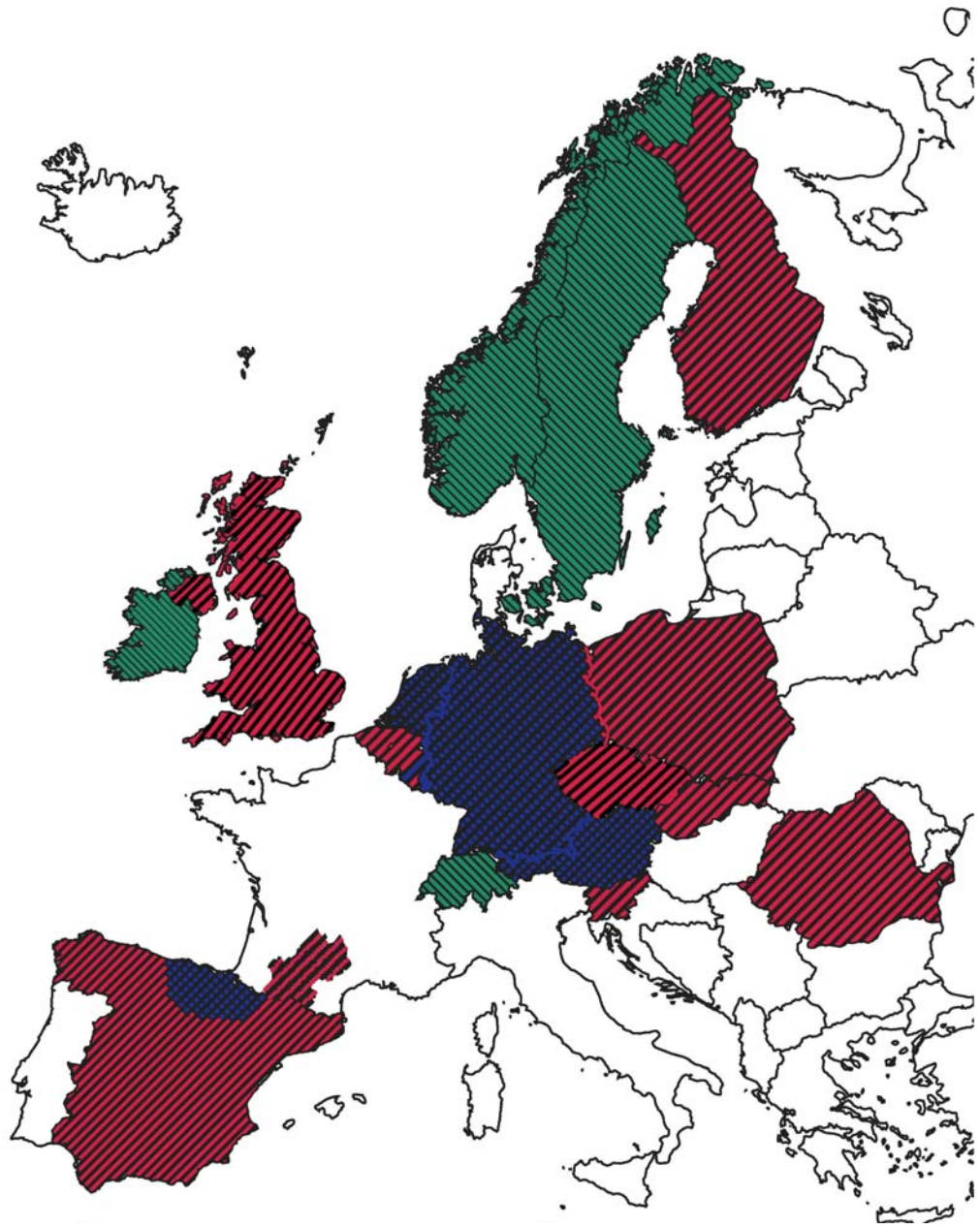
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- New Partners
- Initial Partners
- multiple Engagement



# CONTACT

[www.mnt-era.net](http://www.mnt-era.net)



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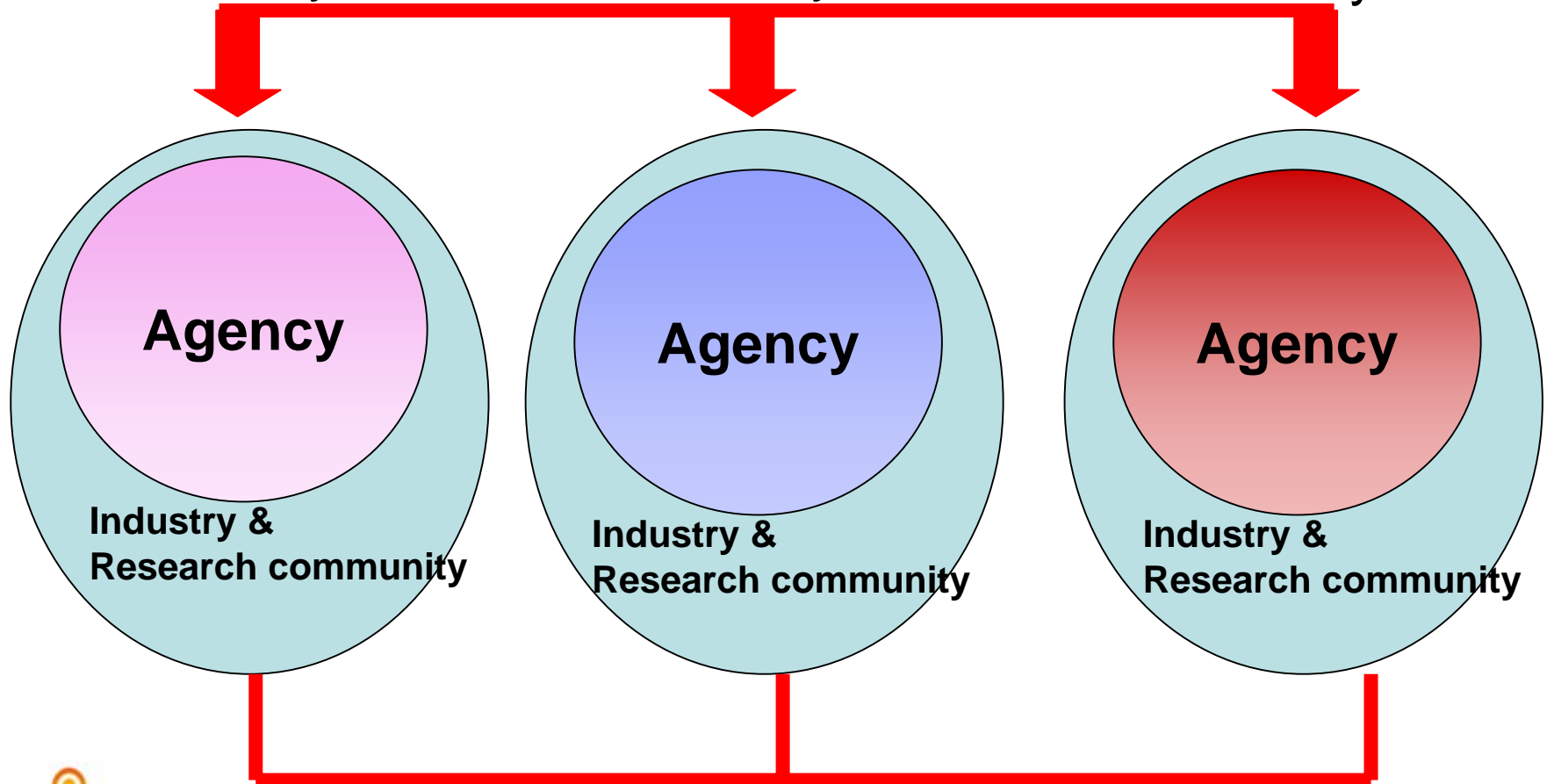


# Joint Action

Country 1

Country 2

Country 3



**EACH APPLICANT WORKS WITH ITS  
NATIONAL AGENCY  
ACCORDING TO NATIONAL RULES, TOO**



# WHAT DOES THE AGENCY NEED FROM YOU?

**WE NEED AN EXPRESSION OF INTEREST  
FOR AN MNT RESEARCH PROJECT  
YOU WANT TO ACCOMPLISH AT A  
NATIONAL/EUROPEAN LEVEL ACCORDING  
TO YOUR OWN NATIONAL PROGRAMME RULES**



## WHY DOES THE AGENCY NEED YOUR EoI?

**New procedures for European collaborative research  
must be developed gradually**

**These skills will enable better access to European  
competitive funds (FP7...)**

**Our expectation is to increase funds with European money  
Real difficulty is competitiveness for funds!!!!**





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## WHAT ARE THE BENEFITS FOR YOU?

**European expertise on National level**

**Trans-national cooperation**

**Consistent evaluation process**

**Accelerated Funding decisions**



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- Mecartex AG Y. Mabilard
- EMPA, Material Science and Technology Prof. L. Schlapbach
- EPFL, Ecole Polytechnique Fédérale de Lausanne Prof. H. Vogel

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- Enterprise Ireland, CTO Nanotech Dr. R. Flood
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