



**MNT ERA-NET** is a project financed under the ERA-NET scheme of FP 6. This projects creates a network of European Micro- and Nanotechnology MNT programmes.. Our objective is to enhance the competitiveness of the European industry through coordination and cooperation of European support measures for Micro- and Nano Technologies and through continuous improvement of excellence of delivery of the support services. We started to work as a core group of eight European Programs in January 2004. After one year, we acquired other national or regional MNT programmes throughout Europe, represented by their national/regional ministries or by their respective programme agencies. Now 17 countries with

21programmes participate in this ERA-NET.

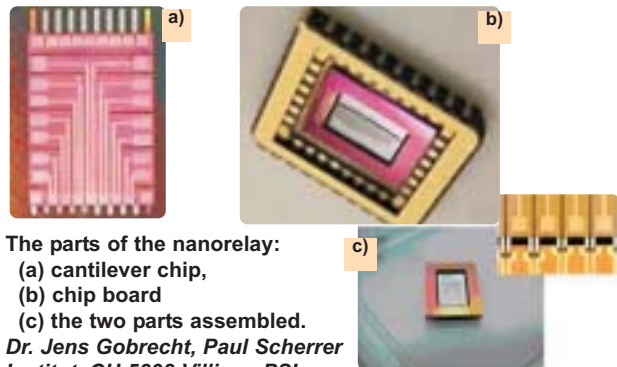
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**Micro-Nano-Technology (MNT)** is a key enabling technology covering the fields of microtechnologies, nanotechnology and microsystems. MNT is expected to impact significantly on future economic and social development. It will stimulate new products and services, create and secure employment in Europe and improve living conditions, including of people who presently lack autonomy as a result of age, illness or accidents. MNT will also contribute greatly to meeting ecological challenges and achieving sustainable development, innovatively and economically.

**The objectives of MNT ERA-NET are related to:** exchange information about programme design and management; learn from each other through the exchange of good practice; implement joint and coordinated activities; secure mid-term cooperation between the participating programmes; expand the project to further countries and regions in Europe establish long-term cooperation.

The focus of **MNT ERA-Net** is:

- 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, nano lithography, nano structuring, nano tribology)
- System integration
- Materials (e.g. functionalisation, surface structuring, replication, composites)
- Nanoelectronics
- Simulation and modeling
- Nanobiotechnology (e.g. sensors, delivery systems, Lab-on-a-chip)



The parts of the nanorelay:  
 (a) cantilever chip,  
 (b) chip board  
 (c) the two parts assembled.  
 Dr. Jens Gobrecht, Paul Scherrer Institut, CH-5232 Villigen PSI

MNT ERA-NET started as a core group in January 2004, joining eight support programmes with Micro- and Nanotechnology foci from all over Europe. In January 2005, the MNT ERA-NET extended to 21 participating programmes in 17 European countries.

