

ΣΜΙΝΕΝΤ



Challenging international markets by networking

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ΣΜΙΝΕΝΤ



What is EMINENT ?

- ★ project funded by the EC
- ★ open network of today 8 national initiatives
- ★ European micro and nanotechnology business accelerator for small and medium sized enterprises

Who is EMINENT ?

- ★ APTE, Switzerland
- ★ CMIC, Spain
- ★ EUCAT, Norway
- ★ FMNT, Finland
- ★ IVAM, Germany
- ★ MINACned, The Netherlands
- ★ MINT, Belgium
- ★ OGMS, Austria

Benefits

- ★ fast access to business / technology / competence information all over Europe
- ★ (pro)active business generation by linking technology with application
- ★ insight in high technology business success drivers and market mechanisms
- ★ European lobby platform for micro and nano-technology companies

Activities

Platform for relevant business information in micro and nanotechnologies:

- ★ Market information through branch organisations
- ★ Value chain issues in microelectronics, microtechnology and nanotechnology
- ★ Information on financing and funding
- ★ Lists on the relevant actors in Europe

...

Activities

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- ★ Valuable contacts through the network
- ★ Facilitating European company cooperations
- ★ Business acceleration by linking users and suppliers

Dissemination

- ★ Website
- ★ Leaflet
- ★ Presentations Hannover Fair,
Commercialisation Conference (COMS)
- ★ ...

Website

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EMINENT

The European micro-nanotechnology business accelerator for small and medium-sized enterprises

Innovation through miniaturization

Micro- and Nanotechnologies are enabling technologies. Potential markets for the Micro- and Nanotechnology-products are shown in the diagram.

On the following pages we provide you with a contact list for any of the shown branches. You can use it to find out about facts and figures of the different markets.

Please click Micro- and Nanotechnology to receive informations about the participants as well as other Micro- and Nanotechnology organizers.

Learn more about our activities in the field of Smart Textiles and Lifecare on these pages:

[Lifecare](#) [Smart Textiles](#)

Microtechnology & Nanotechnology

Tele-communication
Life Science & Genomic
Industrial Process Control & Instrumentation
Medical Devices
Others
IT Peripherals
Energy
Automotive

Start | Eminent - The Europea... | Internet | 09:20

European landscape

209 replies of a survey:

Company size:

- ★ 54 % have 1 to 49 employees in total
- ★ 78 % have 1 to 49 employees in micro and nanotechnology

➔ small entities involved in the business

European landscape

209 replies of a survey:

★ which role play micro and nanotechnologies in your company

★ important role:

★ Today: 55 %

★ In 5 years: 63 %

★ More than 6 years: 70 %

➔ Increasing role of micro and nanotechnologies

European landscape

209 replies of a survey:

companies active as:

- ★ producers of products and components: 30 %
- ★ service providers: 28 %
- ★ equipment manufacturers: 17 %
- ★ other: 26 %

European landscape

209 replies of a survey:

Main markets today:

1. optics and optoelectronics (64)
 2. medical technologies / telecommunication (52)
 3. information technologies / lab technologies / life sciences (42)
- materials and surfaces / instrumentation and control (41)
- automotive / precision engineering (40)

European landscape

209 replies of a survey:

Main markets in the future:

1. medical technologies (70)
 2. optics and optoelectronics (63)
 3. telecommunication (53)
- life sciences (52)
automotive (51)

Special Focus

EMINENT identified 2 relevant not yet covered application fields:

- ★ Life Care
- ★ Smart Textiles

EMINENT Life Care

EMINENT Life Care

Microsystems to improve
the quality of life and social integration
of the elderly, fragile, sick, and handicapped.

EMINENT Life Care

- ★ **EMINENT Life Care** has identified micro- and nanotechnology as one of the most innovative motors for the Life Care Sector.
- ★ **EMINENT Life Care** facilitates innovative joint European SME projects for the benefit of elderly, fragile, sick and handicapped people on an European Level.

EMINENT Life Care

- ★ Eminent Life Care is open to
 - ★ all SMEs and organizations active in Life Care / Life Sciences / Technology / ...
 - ★ with interest in joint transeuropean cooperations.
- ★ The Scope of the covered Projects is determined by market needs and participant interests (recent examples: Drug delivery, Medical Care, ...).

EMINENT Smart Textiles

EMINENT Smart Textiles

Innovation in all areas of textile and clothing activities is a key topic for the European Textile Sector.

Smart Textiles: Opportunities

1. Inventory of opportunities

Textile: clothing, interior decoration, industrial textiles..

- ★ Microsystem integration in Textile
- ★ Machine building for Textile manufacturing
- ★ Wearable electronics
- ★ Nanotechnology in Textile

Smart Textiles: Opportunities

★ **Microsystem integration in textile**

- ★ Sensor integration
- ★ Energy harvesting e.g. by solar cells on textile
- ★ Ambient intelligence

★ **Comment**

- ★ Most relevant topic from microtechnology point of view

Smart Textiles: Opportunities

★ Wearable electronics

- ★ Body Area networks
- ★ Miniaturization
- ★ Low power

★ Comment

- ★ Less relevant for textile industry in case of pure add-on activity. Market opportunities defined by confection branch

Smart Textiles: Opportunities

★ Nanotechnology

- ★ Nano on the fibers
- ★ Nanocoatings on tissue

★ Comment

- ★ Very important research area for textile branch. However less relevant from EMINENT point of view (unless new materials or new material functionalities are needed for the integration of microsystems in textile) .

Smart Textiles: Opportunities

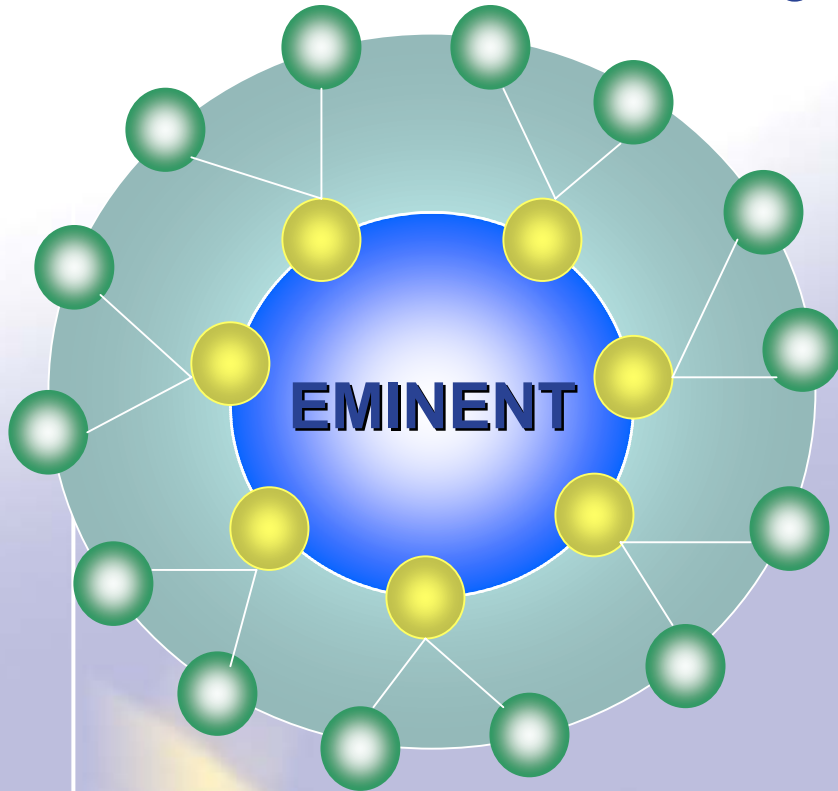
- ★ **Machine building for textile manufacturing**
 - ★ Sensor systems for process control
 - ★ Pattern recognition
- ★ **Comment**
 - ★ Topic mainly covered by large companies (e.g. Picanol, Vandewiele)
 - ★ microsystems-related research on small companies level possible within the fields of equipment development for quality control and finishing tools.

Most Relevant Application Fields

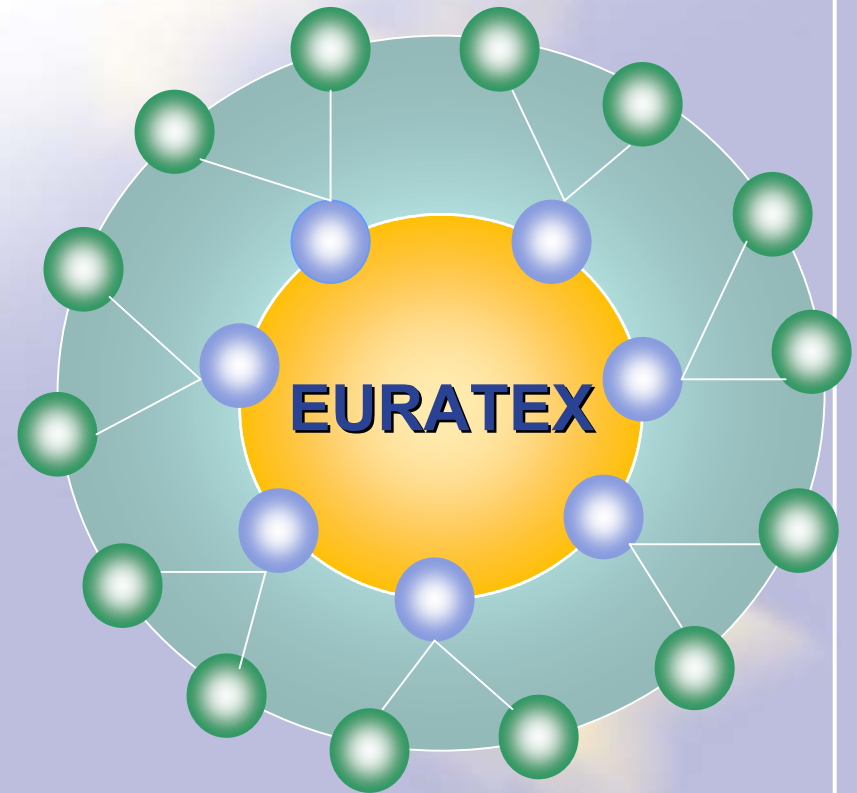
- ★ Life function monitoring
 - ★ Safety clothing
 - ★ Sport clothing
 - ★ Medical applications
- ★ Added functionality for industrial textiles
 - ★ e.g. pressure sensitive fabrics
- ★ General remark: "killer application fields" not yet defined/recognized since different technical possibilities have not been deeply analysed up to know.

Extending the network

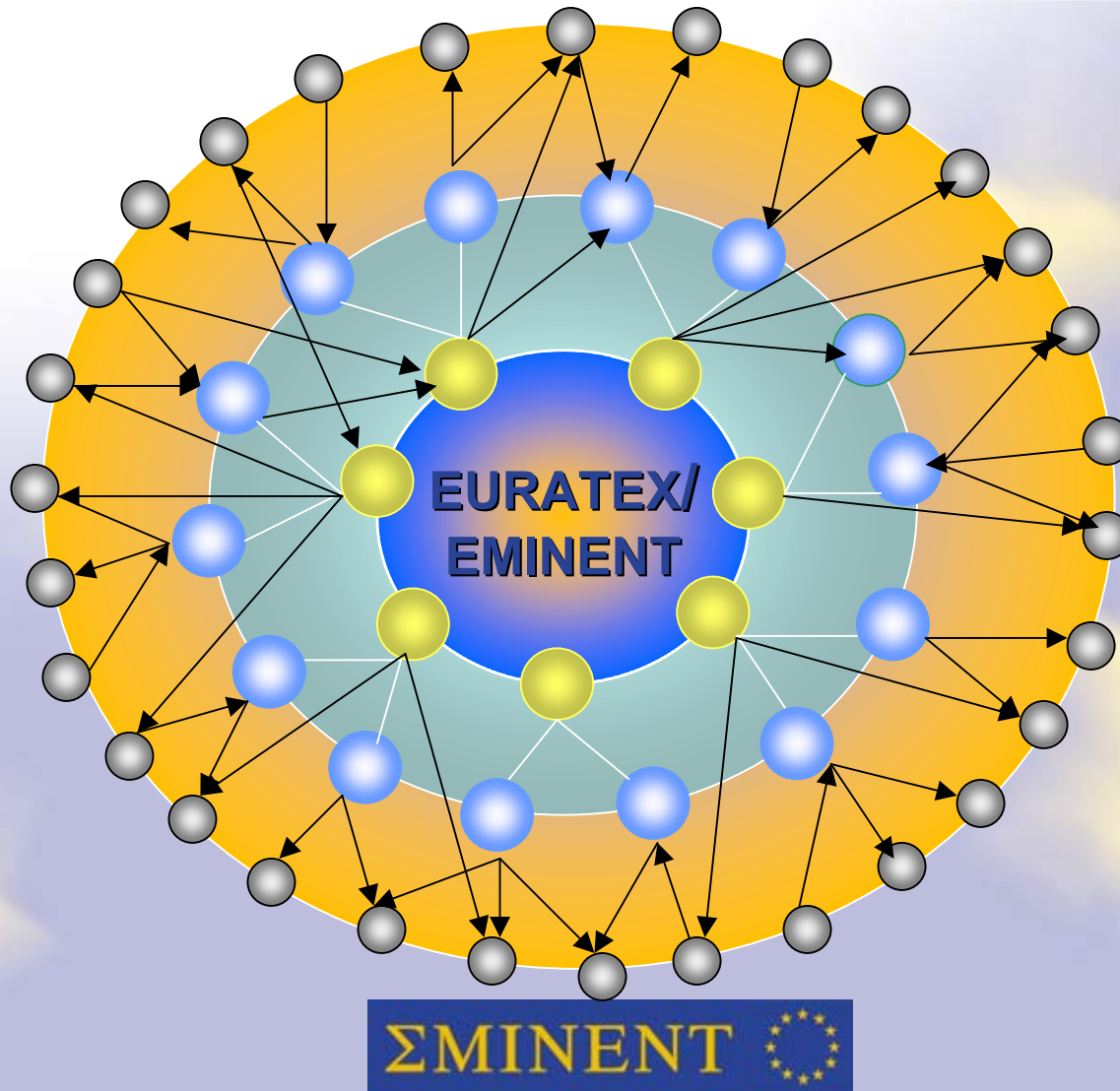
Micro and nanotechnologies



Textiles



Extending the network



ΣMINENT

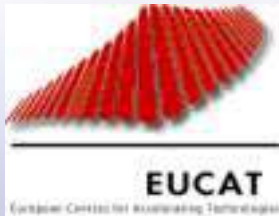


Are you curious?

- ★ are you interested in our special application fields life care and/or smart textiles?
- ★ are you in another branch and are looking for miniaturised solutions?
- ★ are you a national micro and nanotechnology organisation or are you representing companies in this field?
- ★ are you looking for new business opportunities?



Contact us!



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FMNT



MINT

