

# Improvement of industrial Production Integrating Macro-, Micro- And Nanotechnologies for more flexible and efficient manufacturing

## IPMMAN

FP 6 Project – Coordination Action- NMP2-CT-2006-033205 (2006-2009)

Coordinator- Christian Wögerer, PROFACTOR Research and Solutions GmbH, Seibersdorf, Austria  
<http://www.ipmman.eu>

IPMMAN was a Coordinated Action project supported by the European Commission. Its ultimate goal was to support other projects and the establishment of an **European Technology Platform on Micro- and Nanomanufacturing MINAM**-  
<http://www.minamwebportal.eu/>



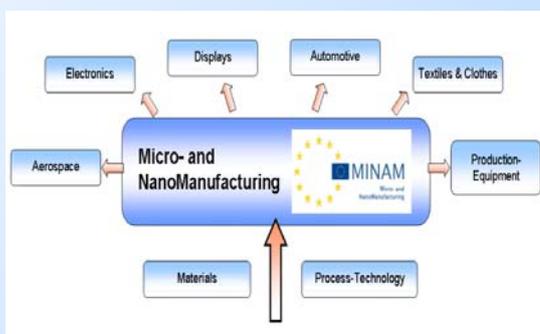
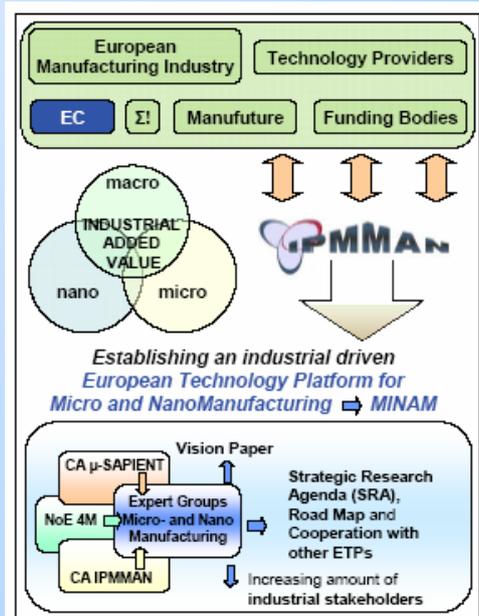
IPMMAN project contributed to the strength of different links between the European Manufacturing Industry and research initiatives (regional and Commission RTD Projects, EUREKA, etc.), leading to improvement the competitiveness and sustainability of the European manufacturing community, merging macro-, micro- and **nano-technologies** to foster industrial innovation.

Collaborating with other projects (CA MicroSapient and NoE 4M), IPMMAN, have an active role and an important contribution to the:

- ▶ Establishment of the European Micro and Nanaomanufacturing Platform- MINAM (sub-platform of MANUFUTURE);
- ▶ Vision Paper and Strategic Research Agenda for for Micro- and Nanomanufacturing, contributing to the definition of topics in FP7- in a longer term, highlighting the industrial development in the next years.

MINAM acts as an exchange forum for the topics of industrial micro and **nano manufacturing**: materials, equipments, components.

MINAM join more than 600 members from 36 countries. It aims to support industry growth in this new field by the development of a common R&D and education strategy and by enabling close cooperation of e.g. SME, Industry, Research Institutions, NGOs and Public Boddies.



The work within IPMMAN project was focussed on:

- Establishment of 3 expert group covering specific topics: **Nanoparticles, Nanosurfaces, Microproduction and Equipment integration**

Key stakeholders, people from industry, technology providers, people from academia, decision entities were actively involved;

- Dissemination as special dedicated sections, organized in close cooperation with most relevant **European Events in micro-nanomanufacturing**, focused talks on micro and **nano-manufacturing** within a great number of conferences, workshops, exhibitions;
- Exploitation of technologies and industrial potential through improved production methods, micro- and **nanotechnologies**, novel products and processes;
- Communication and advisory role to technology policy making bodies, funding organisations and related platforms (EC, national ministries, Eureka, Manufature, etc.).

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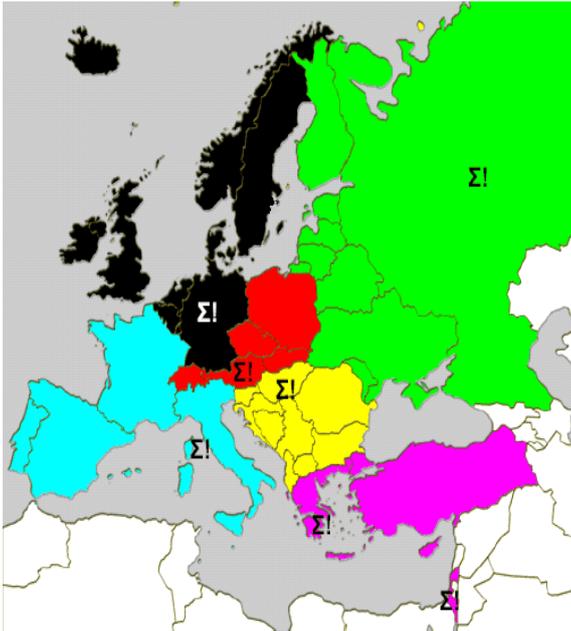
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### Objectives

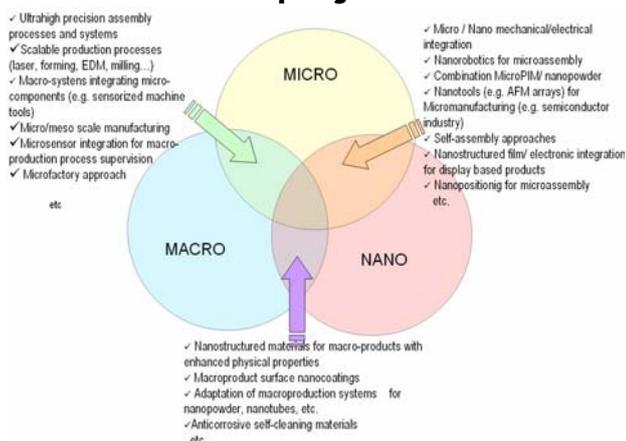
#### IPMMAN's 6 geographical regions



IPMMAN (<http://www.ipmman.eu>) was a Coordinated Action supported by the European Commission, having as ultimate goal to support, with the collaboration of other projects, the establishment of a European Technology Platform on Micro- and Nanomanufacturing and a Strategic Research Agenda. This goal will be pursued through:

- Establishment of Expert Groups and involvement of key stakeholders, including industrialists, technology providers, decision making entities, platforms and funding bodies, etc., to support the establishment of a ETP on Micro- and Nanomanufacturing.
- Technology assessment, best practices and benchmarking, with a key contribution to the definition of topics for the 7th FP and, in a longer term, Strategic Research Agenda for Micro- and Nanomanufacturing.
- Dissemination in close coordination with the organizers of the most relevant European events in Micro- and Nanotechnologies
- Exploitation of technologies and industrial potential through improved production methods, micro- and nanotechnologies for enhanced product properties and technological basis for the introduction of novel products and processes.
- Communication and advisory role to technology policy making bodies, funding organisations and related platforms (EC, national ministries, Eureka, Manufuture, etc.)

#### Topics and field according to the project



#### Partners

- Profactor. Seibersdorf Research GmbH - **Austria**
- Forschungszentrum Karlsruhe GmbH - **Germany**
- Szamitastechnikai es Automatizalasi Kutato Intezet - **Hungary**
- Institute of Industrial Technologies and Automation- Research National Country - **Italy**
- Cardiff University – Manufacturing Engineering Centre (MEC) - **UK**
- MATIMOP The Israeli Industry Center for R&D - **Israel**
- Instituto de Soldadura e Qualidade - **Portugal**
- Fundacion Robotiker - **Spain**
- Laboratory for machine tools and manufacturing engineering – Aristoteles University of Thessaloniki - **Greece**
- National Institute For Research And Development In Microtechnologies - IMT Bucharest - **Romania**
- The Institute for Problems in Mechanics Russian Academy of Sciences (IPM RAS) - **Russia**

IPMMAN is a member of the European Platform **MINAM** - Working Group Micro- and Nano Manufacturing, acting as an exchange platform on the topics of Manufacturing