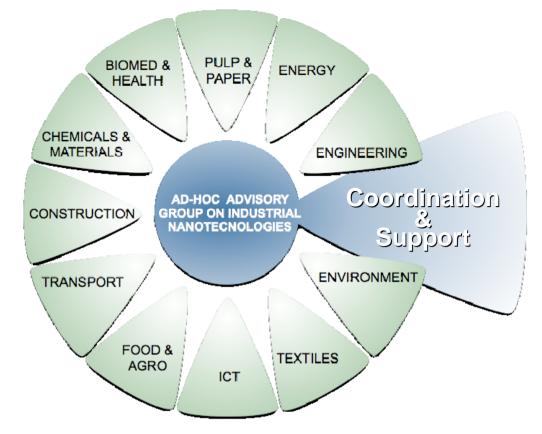




NANO futures Collaborative Environment EURONANOFORUM prof. Paolo Matteazzi, Prague, 2-5 June 2009

MBN Nanomaterialia SpA, IT Chairman of MINAM and President MINAM association

The Ad-Hoc Advisory group on industrial nanotechnologies (IAG): Unit Nanoscience



Debate, assess and advise the provide industrial research and innovation on Nanotechnology for Europe from industrial view point

advise and suggest measures that European promote a strona nanotechnology industry

reasoning and targeting for a multi-annual plan 2010 -2015

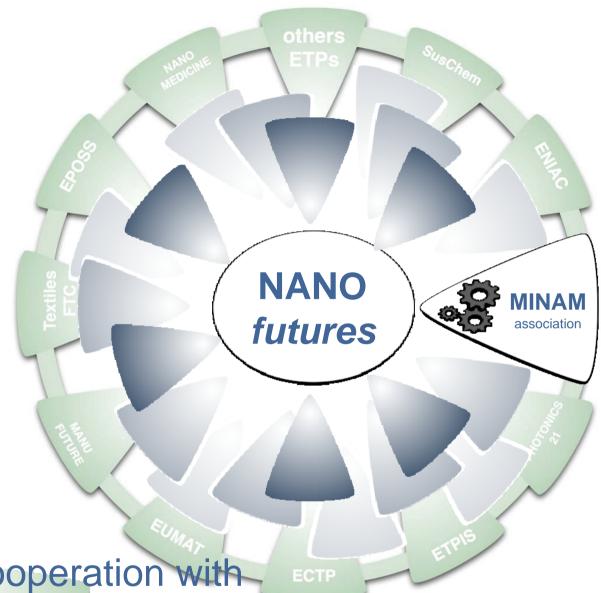
contribute to the nanotechnology roadmap that would accompany the 2nd (2010 - 2015) Nanotechnology Action plan for Europe.



NANOfutures is composed by existing members from several industrial groupings,

industrial association and networks

research institute and universities

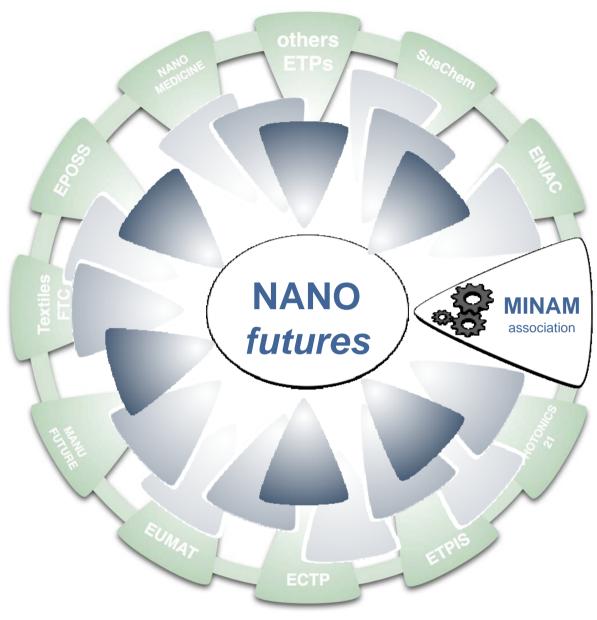


And consists in the cooperation with the other ETPs: **The Collaborative Environment**

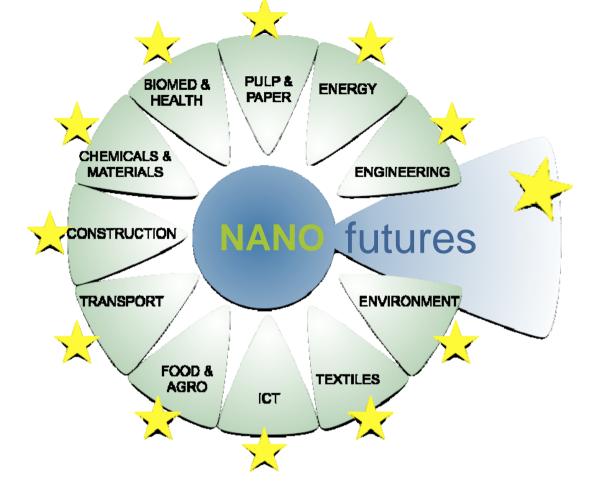


In this way
NANOfutures acts as a sort of Nano-Hub
concurring in designing future prospects of Industrial
Nanotechnologies:
our NanoFutures

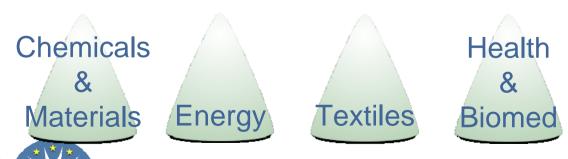




a platform for NANOtechnology development in Europe



Four Examples



Self-Lubricant Sel-protecting and selfhealing material

Hight temperature propertied for light alloys

New production way (from plants/renew able)

Intelligent barrier and filtration properties

Anodes and Cathodes with higher capacity

Thin film technologies for PV cell

Biomass Conversion Catalyst

Optimized Electrode and Electrolyte Antistatic and Antibacterial properties

Extreme weightperformance ratio

Dry Textile Finishing

Multirisk protective **functions**

Structures for combined imaging and therapy

Breakthrough improvements of factors 10-1000 in diagnosis of major diseases

Biomaterial scaffolds for stem cells

Robust and safe feeder system for stem cell differentiation and survival

Anti-infective surfaces

Sectorial needs of nanotechnology

Chemicals

&

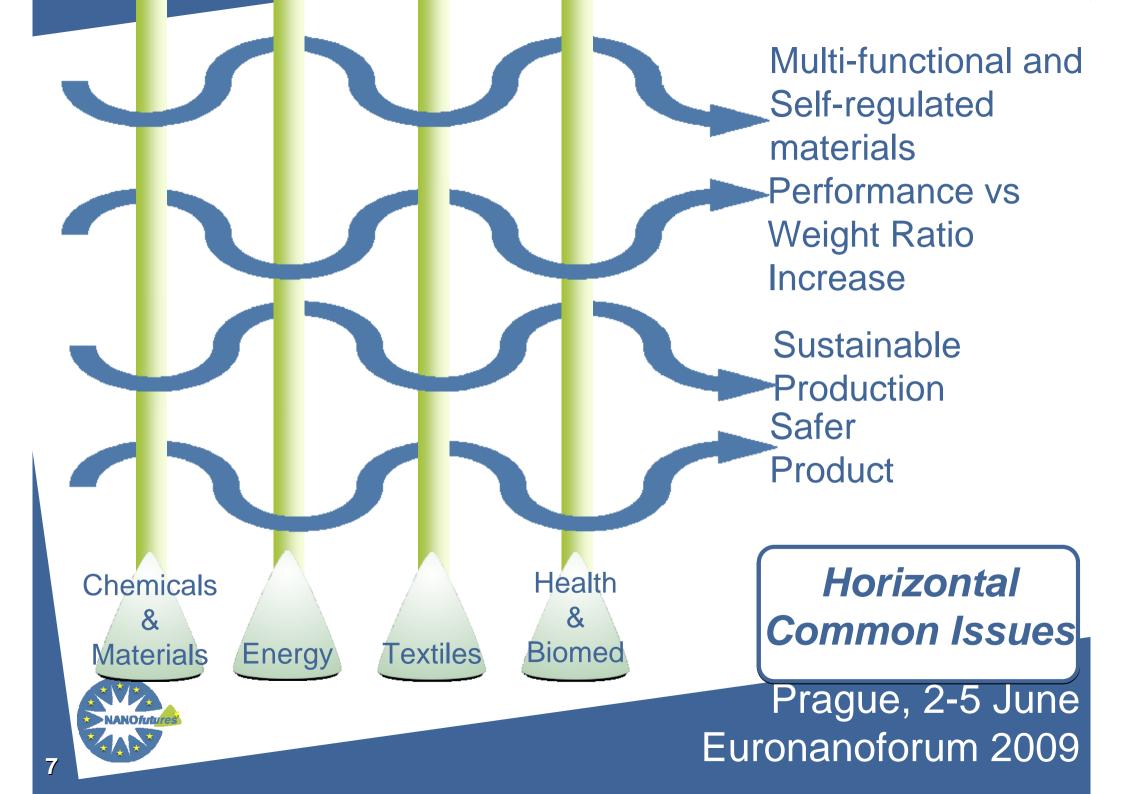
Materials

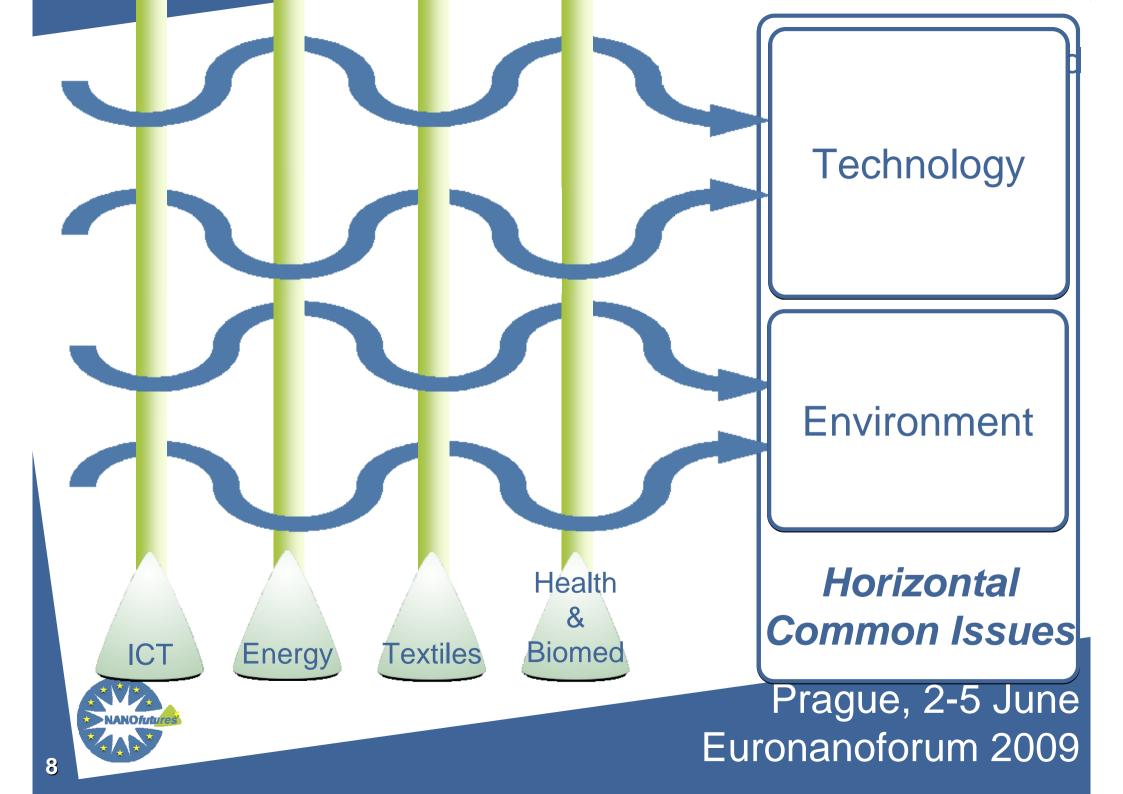
Energy

Textiles



Health





Sectorial needs of nanotechnology

Horizontal Common Issues

Environment

Biocompatibility, Sustainability...

Technology

Performance, Material Features...

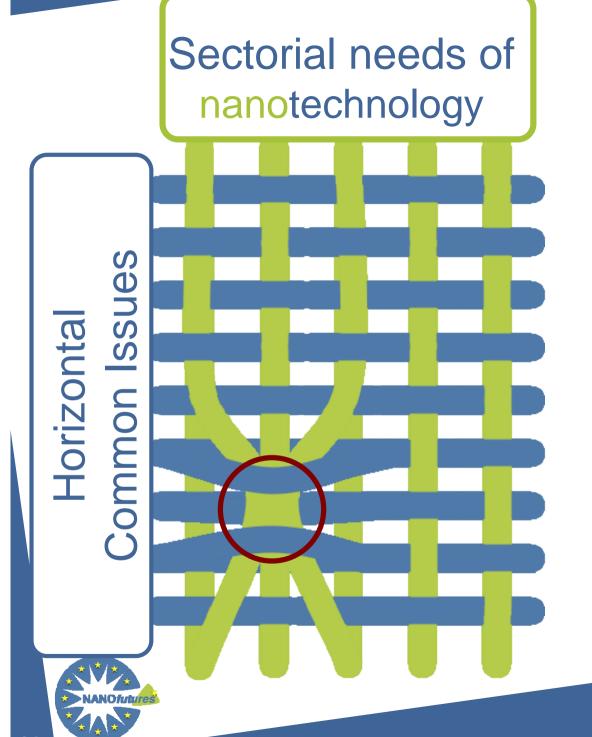
Methodologies

Material design, Research approach

Economy

Market, Costs...

NANOfutures



Few key-needs could belong to/join several sectors

One key-need could meet several common issues

Multiple matching determine a peak of interest

Examples of key needs

- **analytical tools
- *comprehensive eco-materials design
- *inorganic/organic large scale production
- **polymer nanocomposites
- *high strength light alloys

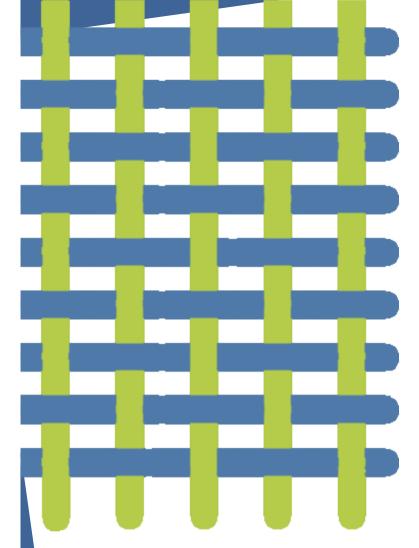
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NANOfutures advantages

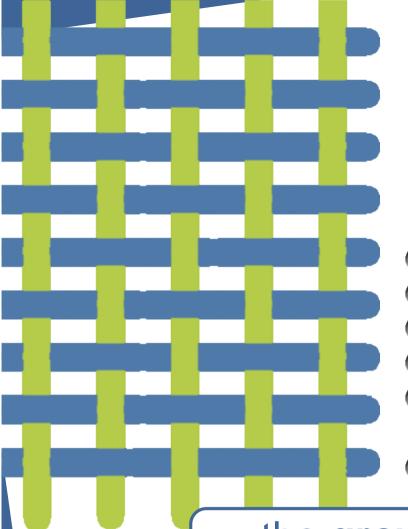
Common Issues Side

- Delineate common members interest
- Direct acces to research institute results
- Direct linking of common interests
- Fast dissemination of new product and processes
- Training in nanoprocesses

Sector needs side

- More than 600 member
- Several different industrial sectors represented
- Direct contact with industrial needs
- Universities and research institute





Challenging is the work to recognize **Key-Nodes** through **NANO** futures and **cooperative** work around it

- Key actors in industrial nanotechnologies
- Scientific and technological skills
- Academic-Industrial connections
- Direct expertise in state of the art technology
- Direct experience in industrial manufacturing processes
- NANOfutures central to a large network

the growth of the european industry through the nanotechnologies integration



The Work Done to Establish the Collaborative Environment





A Draft is **ready**



NANOfutures

APPLICATION FOR BECOMING A

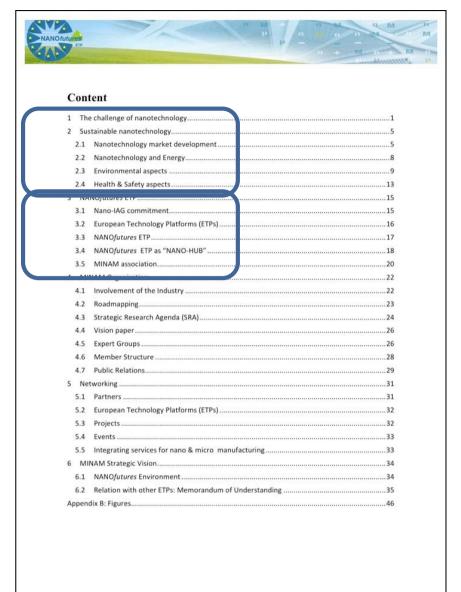
EUROPEAN

INTEGRATING PLATFORM

DRAFT29.05.2009



L The	challenge of nanotechnology
Sus	tainable nanotechnology
2.1	Nanotechnology market development
2.2	Nanotechnology and Energy
2.3	Environmental aspects
2.4	Health & Safety aspects
3 NA	NOfutures
3.1	Nano-IAG commitment
3.2	European Technology Platforms (ETPs)
3.3	NANOfutures
3.4	NANOfutures as "NANO-HUB"
3.5	MINAM association





4		Organisation	31
	4.1	Involvement of the Industry	
	4.2	Roadmapping	
	4.3	Strategic Research Agenda (SRA)	
	4.4	Vision paper	
	4.5	Expert Groups	
	4.6	Member Structure	
	4.7	Public Relations	
5	Net	working	
	5.1	Partners	
	5.2	European Technology Platforms (ETPs)	
	5.3	Projects	
	5.4	Events	
	5.5	Integrating services for nano & micro manufacturing	
6		Strategic Vision	
	6.1	NANOfutures Environment	
	6.2	Relation with other ETPs: Memorandum of Understanding	

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Memorandum of Understanding



May, 20th 2009 Version: Draft



2 Purpose of this MoU

3 The NANO futures Environment

4 Steering Committee

5 Brain Stormin Creative

Sessions

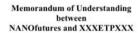
6 Communications

7 Effective date, Duration and

Amendments

8 Closing remarks





LOGOXXX

. Background

MINAM NANOfutures is a rising European multi-sectorial, cross-ETP, integrating platform that will be able to congregate and support all elements required for establishing within the next 10 years (2010-2020) a new, competitive, nano-based industry, encompassing RTD, legislative, HSE, innovation and commercialisation aspects.

This new platform will be instrumental in the industrialisation of nanotechnology by bridging the gap between research, technological innovation and company /market innovation aspects. When fully operating MINAM NANOfutures would act as a superstructure that would carry the load of nanotechnology industrialization forward to the benefit of European economy and its citizens, connecting together all relevant Technology Platforms requiring nanotechnologies in their industrial sector and products.

An important role of the new platform will be the linking and integration between nano-micro and macro technology based industries and the general manufacturing field. MINAM NANOfutures as a cross-domain community will be inevitably dependent on trends and developments in its "elient communities". Therefore its roadmapping and fields of cooperation remain a continuous process allowing for a permanent readjustment of priorities according to the requirements of the MINAM environment and its related industrial areas.

Agree on the following memorandum of understanding as a further step in the development of MINAM NANOfutures with the common aim to help Europe to achieve its growth, competitiveness and sustainability objectives through nanotechnologies.

2. Purpose of this MoU

The purpose of this Memorandum of Understanding (MoU) is to define a framework and set up a method of collaboration between MINAM NANOfutures and XXXETPXXX (hereafter also referred to as the "Parties").

The Platform XXXETPXXX defines its interest as follows:

3. The MINAM NANOfutures environment

Industrial needs, Nanotechnology solutions, ETPs visions and European policies (Environment, Cooperation, Economy etc.) interweave themselves forming a complex texture.

Common points of interest, where needs, solution and policies overlap, represent the key nodes of this texture. Identifying these key nodes is the challenge to be really effective in promoting Nanotechnology. MINAM NANOfutures platform constitutes the instrument to reveal such key nodes which will correspond to future research and industrial priorities.



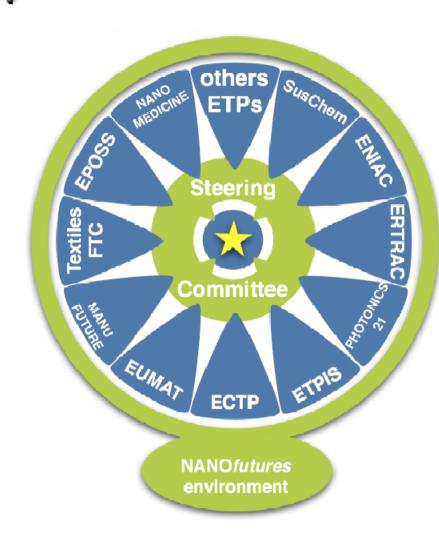




Steering Committee

A Steering Committee, chaired by the MINAM chairman or by a delegate and composed of high-level representatives of the Participants from the platforms will co-ordinate the joint work under this Memorandum **Understanding**. Each Participant should appoint representative and one deputy one representative to the Steering Committee and notify all other Participants. Steering Committee members should be senior representatives, with the authority to represent organisations. The Steering Committee will meet as necessary, but at least twice a year. It should decide on its rules of procedure by unanimity.

Representatives from the involved ETPs, the private industrial sector, the social partners, other institutions, as well as experts, could be invited to its meetings as observers, as appropriate.



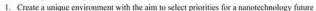


Brain Storming creative Sessions

The Steering Committee will invite brain storming sessions, on a selected frame of needs, indicatively three times per year with the purpose of generating deep, cross linking horizontal thoughts between the various ETPs needs. Such sessions will involve technical representatives of the various ETPs having signed a MoU with NANO futures, with at least half coming from industries. Such sessions have the goal to reveal intersectorial/interplatform key nodes in the space of nanotechnology and policy needs.

Identified key nodes will be considered by the Steering Committee for the constitution of Working Groups of experts in the field, with the objective to develop a dedicated multiannual plan of work.





2. Standardize a working methodology to select priorities an d key nodes

 Identify common point of interest (key nodes), rising from the overlapping of industrial needs, nanotechnology solutions, ETPs visions and European policies

The NANOfutures environment will:

 Build up technical working groups focused on specific key nodes with defined periodical meetings.

- Enhance the capacities and key role of both platforms
- 6. Contribute to key policy objectives which are essential for Europe's future competitiveness
- Support EC in its Nano Action Plan and Nano policy and XXXETP-FIELDXXX together with members of other platforms and the Nano Industrial Advisor Group (nIAG)
- Support National and regional programmes in their policy and implementation planning, communication and general efforts towards lowering the barriers to commercialisation.



4. Steering Committee

A Steering Committee, chaired a delegate and composed of high-level representatives of the Participants from the platforms will co-ordinate the joint work under this Memorandum of Understanding. Each Participant should appoint one representative and one deputy representative to the Steering Committee and notify all other Participants. Steering Committee members should be senior representatives, with the authority to represent their organisations. The Steering Committee will meet as necessary, but at least twice a year. It should decide on its rules of procedure by unanimity.

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o. Communication

The primary point of contact for each Party is the secretariat and the chairman of the Steering









Memorandum of Understanding

An example of Memorandum of Understanding signed between NANOfutures and SusChem

Such key nodes will be considered by the Steering Committee for the constitution of Working Groups made up by experts in the field which will develop a dedicated multiannual plan of work.

6. Communication

The primary point of contact for each Party is the MINAM secretariat and the chairman of the Steering Committee.

7. Effective date, Duration and Amendments

This MoU will become effective when signed by the authorized representatives of the Parties. Amendments shall be valid only if signed by the authorized representatives of the Parties.

The MoU shall remain in effect until completion of the activities identified in Sections 3 and 4, or upon three (3) months prior written notice by one Party to the other.

8. Closing remarks

Co-operation in the context of this Memorandum of Understanding is based on a voluntary commitment and will continue until the objectives of the initiative have been achieved. Where any of the Participants so request, this Memorandum of Understanding shall be reviewed and may be amended by common consent on the basis of a proposal submitted to the Participants by the steering

In any event, a review of the continuing relevance and efficiency of the arrangements contained in this Memorandum shall be conducted no later than three years after it comes into effect. This Memorandum of Understanding does not contain obligations governed by international law This Memorandum of Understanding shall become effective on the date of its signature by the last of the Participants listed below.

Signatures

For Minam NANQfutures,

Chairman

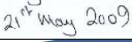
Bruxelles May 22 ud, 2009

For SusChem

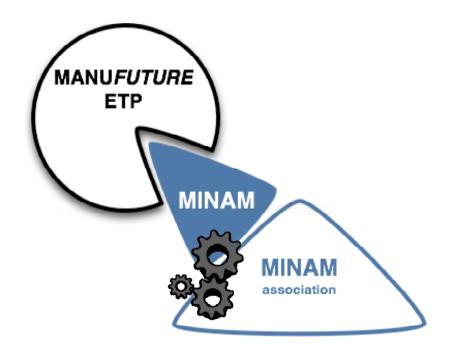
Prof. Dr Rodney Townsend

Chairmen

London

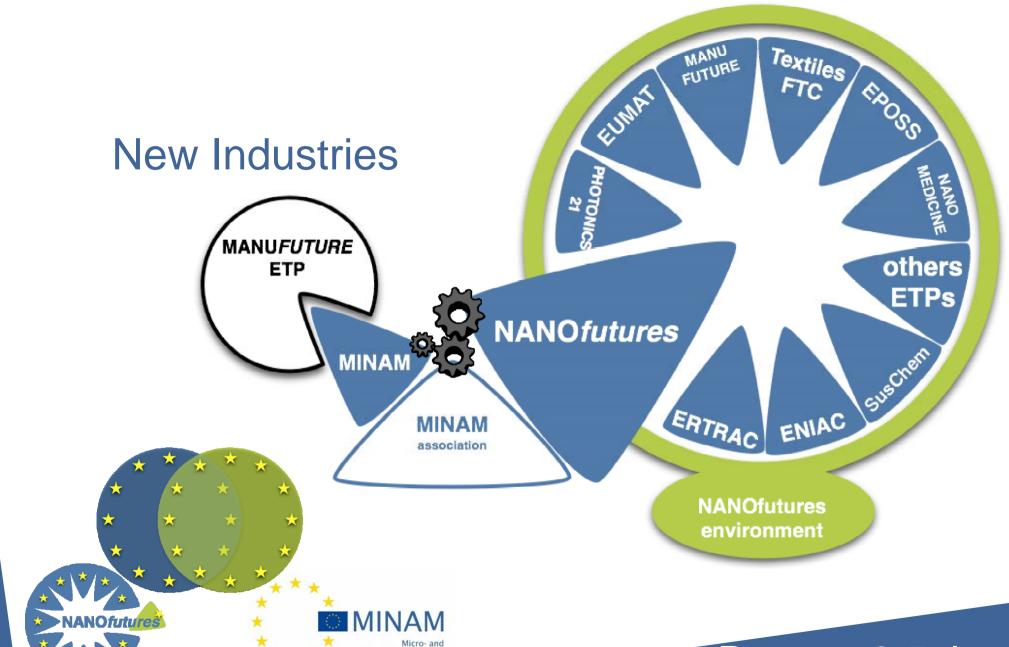






MINAM having its roots in MANUFUTURE and being strongly involved in the **same time** in the nanotechnology is expected to contribute for the creation and sustain via MINAM association of this collaborative environment: **NANOfutures**





TRANSPORTS





TEXTILE





AEROSPACE





Biomed. & HEALTH





MINAM association

EuropeanPLATFORMS

European COMMISSION





THANK YOU

Euronanoforum 2009 - 2,5 July - Prague prof. Paolo Matteazzi, MBN Nanomaterialia SpA, IT