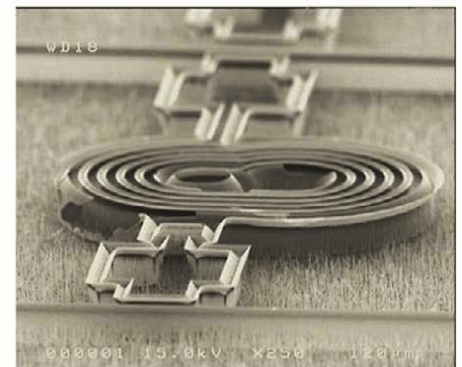




The world is standing at a tipping point. The supply of resources of the Earth is becoming critical. Global warming is the most important problem our society is facing. Our society must adapt a resilient strategy. Materials technology is fundamental for such sustainable, responsible societal development. The transformation of material into **something useful, functional to provide a specific service** is key for such development. Large parts of the innovative functionalities of our day-to-day products owe their existence to **advancements in materials in various sectors** such as electronic, medical, construction, transport systems, energy production and mechanical engineering.

EuMaT has been launched in order to assure **optimal involvement of industry** and other important stakeholders in the process of **establishing of R&D priorities** in the area of **advanced engineering materials and technologies**. EuMaT should improve coherence in existing and forthcoming EU projects, in the field of materials R&D.



Left: ZnO nanostructures, right: micro-inductor on porous Si substrate.
Source: GREMAN Laboratory

The main goal of EuMaT is to contribute to the best relation and **dialogue between industry, R&D actors and institutions** aiming at improving the **coordination and synergies at national and European level** in the field of Materials R&D.

The primary objective of EuMaT is **to produce the Strategic Research Agenda** which, with appropriate involvement of industry and other main stakeholders will provide basis for

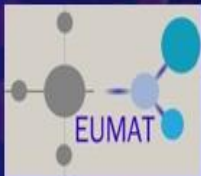
- **identification of needs** and
- **establishing priorities** in the area of advanced materials and technologies.

In addition, EuMaT promotes

- **interdisciplinary education and training**, and technology transfer and innovation
- **societal considerations in the R&D** (e.g. potential impacts on public health, safety, environmental risks)
- cooperation and initiatives **at European and International level**

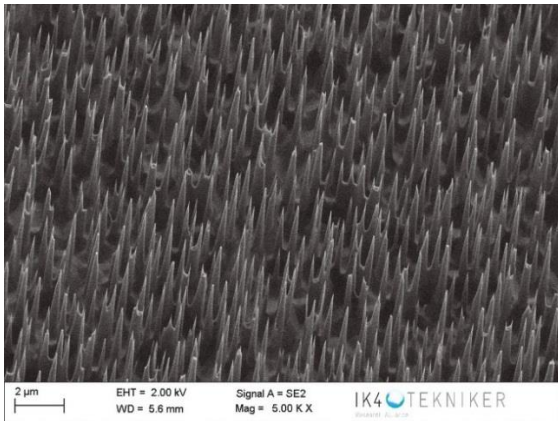
EuMaT is open to all interested new members accepting EuMaT goals, principles and statutes.

The European manufacturing industry needs a paradigm shift, from cost cutting to knowledge-based value adding, in order to achieve a sustainable and competitive system.

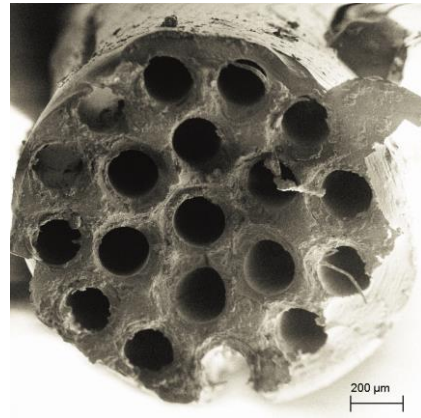


EuMaT

European Technology Platform for
Advanced Engineering Materials and Technologies



Antibacterial surface topography constituted by nanospikes.
Source: IK4-TEKNIKER

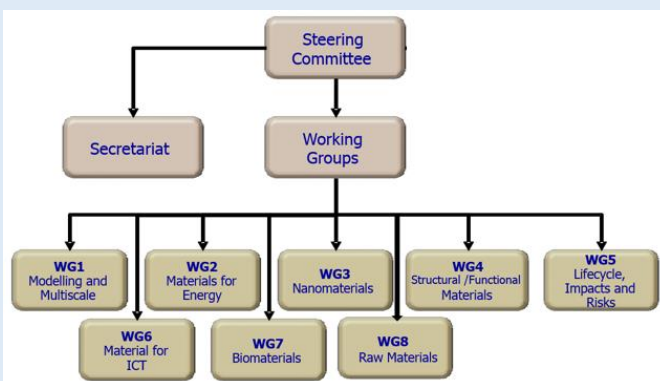


Microchannels of 200 μm in methacrylated PCL for nerve regeneration. Source: IK4-TEKNIKER (www.neurimp.eu)

EuMaT covers all **elements of the life cycle** of an industrial product, regardless if it is a component, a system or a final good:

- design, development & qualification of advanced material
- advanced production, processing and manufacturing and
- material and component testing, monitoring and durability prediction
- material selection and optimization
- advanced modelling on all scales
- databases and supporting analytical tools
- life cycle considerations, including impacts, decommissioning, reliability, hazards, risks and recyclability

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