

nanotec IT

About us

Nanotechnology is amongst the six Key Enabling Technologies identified by the European Commission as the drivers for promoting future industrial growth within the Horizon 2020 framework. All advanced countries consider strategically vital to build a strong position in this field.

AIRI/Nanotec IT - The Italian Centre for Nanotechnology- started in 2003 as a division of AIRI. Its mission is to promote nanotechnology and its application in Italy bridging the efforts in the field of industry, public research and governmental institutions. The goal is to contribute to increase through it the competitive position of the Country.

The AIRI/Nanotec IT activity aims to:

- **stimulate** the interest and the commitment in nanotechnology within the Italian enterprises
- **inform** government, opinion leaders, and the public, to foster appropriate and timely initiatives for the development of nanotechnology
- **favour** networking and exchange of information to

Nanotechnology is the application of scientific knowledge to control and utilize matter in the size range 1 nm to 100 nm, where entirely new physical and chemical, size-related properties and phenomena can emerge. This often results in new, exciting and different characteristics that can generate a vast array of novel products.

(ISO TC 229 Business Plan, 2011)

promote cooperation

- **facilitate** the use of research results and technology transfer
- **contribute** to a responsible development

Most of the leading players of Italian nanotechnology are already members of the Centre including the major Italian companies, practically all University structures and public research organizations, and a certain number of SMEs.

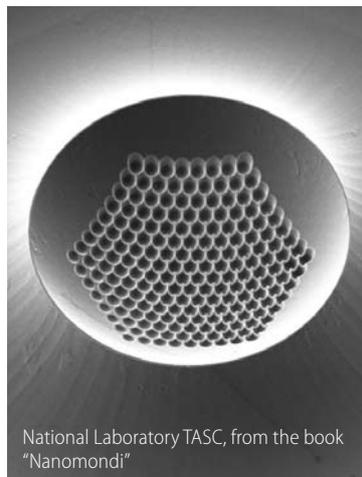
Valuable features characterising AIRI/Nanotec IT action are:

Dialogue pivotal to the activity of the Centre is the promotion of a dialogue among its associates essential to pinpoint the relevant issues and priorities for the development of this field

Independence is a not-for-profit organization, supported by its associates, participation in funded research projects, organization of events, publications

Competence a long lasting experience in R&D planning and promotion of innovation assure a high standard of competence and accountability to the action of the Centre

International reach the Centre maintain an ample network of relations with many of the principal public and private organisms dealing with nanotechnology in the world



National Laboratory TASC, from the book "Nanomondi"

Services

Since the beginning of its life, AIRI/Nanotec IT has become a centre of reference with respect to R&D activities, applications, market data and forecasts, research programs and funding, research structures and facilities, events.

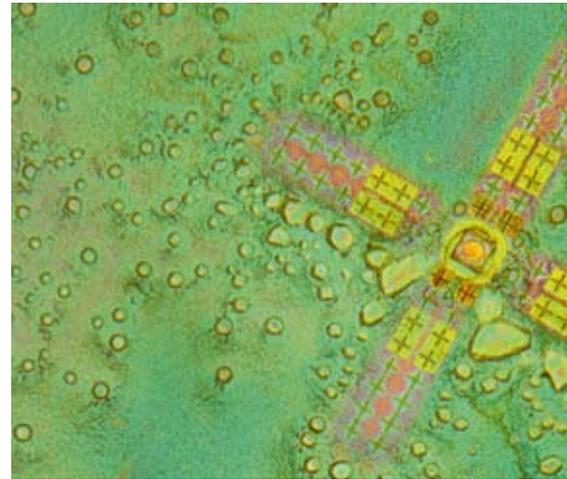
The tools are:

- **The web site** (www.nanotec.it) where to gain access to updated news, information about the activity of the Centre, documents and publications
- **Nanotec IT Newsletter** a forum for activities and initiatives in nanotechnology in Italy, and a window on the outside world
- **Nanotec IT Bulletin** quarterly published in electronic form to provide a timely and quick information
- **Reports** The Census of nanotechnology in Italy, periodically updated, giving detailed information about players and activities in the Country
- **Events** AIRI/Nanotec IT, alone or in cooperation with

others, organizes events to disseminate information and educate people, favour contacts, foster cooperation, promote responsible innovation. Since 2008 it organizes NanotechItaly, the yearly national event, International showcase for nanotechnologies

- **Projects** AIRI/Nanotec IT makes people aware of and promote the participation at cooperative European and Italian research projects on nanotechnologies. A dedicated support is offered to SMEs.

The Centre participates also directly, either as the coordinator or partner, to such projects, so extending its reach and strengthening its international network.



Recent examples are:

NanoCode

www.nanocode.eu

Observatory NANO

www.observatorynano.eu).

Key Enabling Technologies are knowledge intensive and associated with high R&D intensity, rapid innovation cycles, high capital expenditure and highly skilled employment. They are multidisciplinary, cutting across many technology areas with a trend towards convergence and integration.

Nanotechnology is one of the KETs, the others are: micro and nanoelectronics, biotechnology, photonics, advanced materials, advanced manufacturing systems.

(European Commission, High Level Group on KETs, 2011)

technologies

Why join us

Joining AIRI/NanotecIT gives the opportunity to participate in the Centre activities so helping to shape contents and objectives of its action and take advantage of its services and initiatives.

The association is open to organizations directly active in nanotechnologies or planning to do it, as well as to organizations that want to

be kept informed about the technological and societal aspects of its development.

Researchers from academia and industry, public and industrial planners, product developers, entrepreneurs, governmental institutions, professional and business associations, investors, all can get useful indications for their practice.

AIRI Italian Association for Industrial Research

Founded in 1974 with the aim of promoting industrial research and innovation, enhancing co-operation between private and public sector, today AIRI is the focal point for more than 100 members: Large companies and SMEs active in R&D; Universities, public and private research Centers; Industrial associations, Scientific parks, financial institutions supporting R&D.

The researchers of AIRI members represent about one third of those operating in the country. Due to this broad representative base, AIRI is a key opinion leader for decision-makers sustaining industrial research as strategies for the technological development of the Country.

Besides the division Nanotec IT devoted to nanotechnologies, AIRI started in 2011 a specific activity to monitor developments of all Key Enabling Technologies in Italy.



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