
Impact

The development of the information society has had a major effect on all industries. To stay competitive, European companies have to invest in human talent capable of creating innovative information technology based products. As a world leader in ICT development and Internet use, Europe is a dynamic testbed of creativity for pioneering new ICT solutions. Both the pace of change in these technologies, and the complexity of the problems to be solved are increasing. Soon, nanoelectronics will become a regular service around the world. Nanoelectronics systems can take many man-years of effort to design. It is therefore crucial that the designers have access to all aspects of the new technology (Training, IP, Design Tools and Design Methodologies).

Micro- and nanoelectronics is one of the fastest growing industrial technologies and currently there is a significant amount of research being conducted in academic institutes and large companies in Europe. From this there is enormous potential for future micro- and nanoelectronics applications, since most appliances produced today could benefit from inclusion of such devices. In order to exploit such developments, a tremendous dissemination action is required in order to disseminate both training and design skills to European industry and in particular innovative SMEs.

The expected impact for Objectives 3.2 of the 2009 ICT Work Programme is:

- Innovation in product architecture and increased efficiency in product design in the timeframe 2013 - 2015, with reduced system development cost and time to market
- Capability in Europe to design in a reliable manner products that use the most advanced IC manufacturing and integration processes
- Maintained leading position of Europe in product innovation and design for major application fields
- Use of new devices for new functionalities

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