



## FIRST INTERNATIONAL NANOTECHNOLOGY CONFERENCE ON COMMUNICATION AND COOPERATION

### **Abstract**

ICT and Nanoelectronics in the European Framework Programmes  
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Nanoelectronics is a key factor for industrial competitiveness. In contrast to many other nanotechnologies that have not matured beyond the research stage, it is an industrial reality representing a world market of some 200 billion Euro per year. The market of products depending on nanoelectronics is even much larger.

Therefore, research in nanoelectronics is a key element of a coherent industrial policy for the Information Society. For many years, microelectronics has been a focussed area of European Community research. It grew over several Framework Programmes and is now a Strategic Objective in Framework Programme 6. In this context, an experiment was conducted recently in combining nanoelectronics and nanotechnologies under a joint call for proposals which bears some interesting results.

In the proposed Framework Programme 7, ICT is a research theme with the objective to enable Europe to master and shape the future developments of Information and Communication Technologies so that the demands of its society and economy are met. ICT has the highest proposed budget (28.5% of the "cooperation" programme). Nanoelectronics is identified there as a technology pillar with the potential of implementing a "Joint Technology Initiative". This would offer the necessary legal and organisational frameworks to better structure and ensure joint long-term commitments from all stakeholders and allow the Strategic Research Agenda to be implemented in a seamless manner across Europe.