

The partners in the project are: Europe's three largest semiconductor companies - Infineon, Philips and STMicroelectronics; the two largest European Technological Research Institutes - CEA Leti (France) and IMEC (Belgium); three research laboratories coordinated by the FhG (Germany); eight research laboratories coordinated by the CNRS (France); one research laboratory from the Technical University of Chemnitz (Germany); three companies - Ion Beam Services (France), ISILTEC (Germany) and Magwel (Belgium); and ACIES Europe (France), which will undertake some management aspects of the project. Additional partners could be incorporated into the Consortium in the future.

Guillermo Bomchil, leader of the NANOCMOS Project, comments: "Because of its ambitious objectives and committed resources that are mobilized for a common goal, NANOCMOS represents a unique opportunity for Europe to become the leading center for Nanoelectronics, while supporting academic research and helping its indigenous industrial players to hone their competitive edge.

The first phase of the NANOCMOS project is expected to last 27 months and mobilizes a large research potential. In addition to the €24M support from the European Commission, the partners will also invest advanced research resources to achieve the objectives of the project.

The partners will submit a proposal for the second phase of the NANOCMOS project, starting in 2006, to the European Commission. This phase will aim to demonstrate the feasibility of the 32 and 22-nm nodes. Additionally, the consortium will make a proposal to the MEDEA+ organization to start, in 2006, on the integration and validation of the 45-nm technology node in an industrial 300-mm wafer manufacturing facility, currently expected to be the Crolles2 facility, which is jointly shared by Motorola, Philips, and STMicroelectronics. These two upcoming project proposals have been integrated in the whole NANOCMOS strategy and discussed with European Commission and MEDEA+ officials.

In addition to NANOCMOS, the European Commission has agreed to sponsor the SINANO 'Network of Excellence'. This 'Network' is highly complementary to NANOCMOS and gathers most of the European Public Research Laboratories working in the field of novel devices. Together, NANOCMOS and SINANO represent a powerful ensemble of industry and academia that will pave the way for rapid adoption by integrated circuit (IC) manufacturers of promising results produced by the academic partners.

Partner glossary with links to their websites:

NANOCMOS - PDF http://fmnt.online.fr/NANOCMOS.pdf SINANO (SI-based NANOdevices) - * PDF http://fmnt.online.fr/SINANO.pdf

ACIES Europe - http://www.acies-europe.fr

CEA Leti (Commissariat à l'Energie Atomique Laboratoire d'Electronique de Technologie de l'Information)

CNRS (Centre National de la Recherche Scientifique) - http://www.cnrs.fr

FhG (Fraunhofer-Gesellschaft) - http://www.fraunhofer.de

IMEC - http://www.imec.be

Infineon - http://www.infineon.com

Ion Beam Services - http://www.ion-beam-services.com ISILTEC - http://www.isiltec.info

Magwel - http://www.magwel.com

Philips - http://www.semiconductors.philips.com

STMicroelectronics - http://www.st.com

Technical University of Chemnitz - http://www.tu-chemnitz.de

About this website

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1 of 1 10/03/04 12:47