

Agence d'études et de promotion de l'Isère

AEPI - Grenoble-Isère, France, Economic Development
Agency

Arizona Nanotechnology Symposium

April 23, 2007







Public Research Budget for Micro & Nanotechnologies in France Key figures in France

Public budget for research (2005): 19,8 B€ (~ 1% GDP)

Total budget (public and private): 2,2% GDP

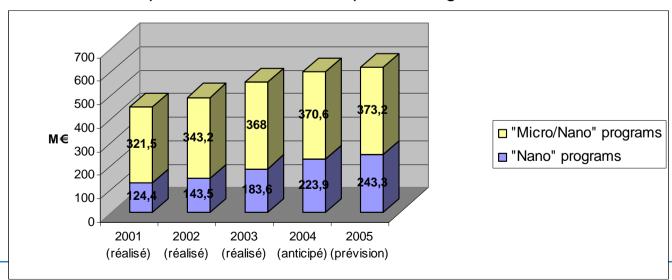
Goal: 3% GDP in 2010

Micro and nanotechnologies public budgets:

445,6 M€(2001) \rightarrow 616,5 M€(2005)

Main recipients: CNRS, CEA, INSERM, ...

Estimated private investments: ~ public budget







What is a Competitive Cluster?

A Competitive Cluster is:

 A combination of industry, research community and education institutions located within a well defined geographical area

 All involved in partnerships to create synergies around innovative projects,

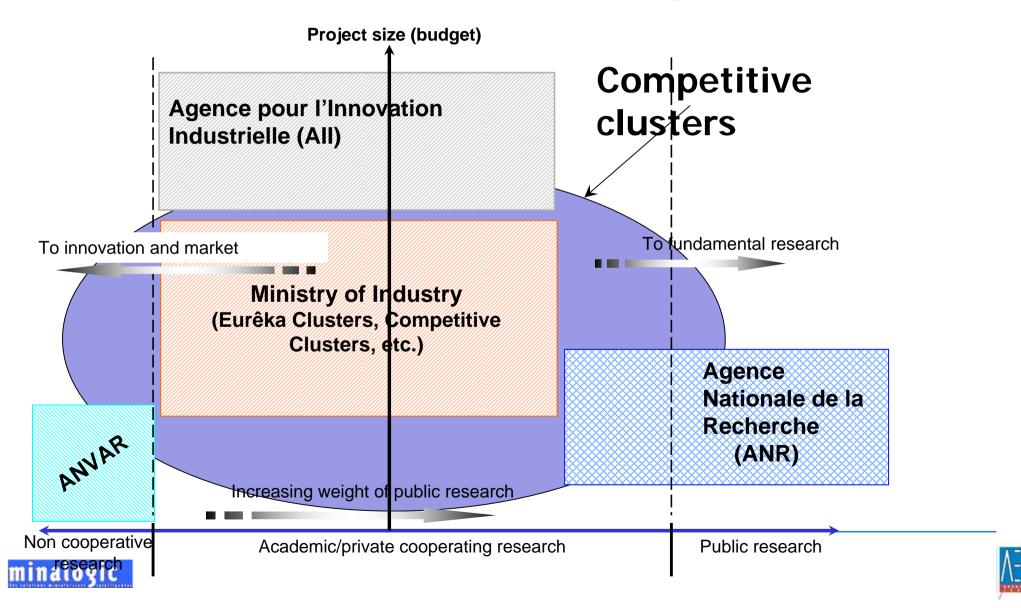
 Which must reach a critical mass/threshold for international visibility







Competitive Cluster R&D Financing



minalogic

Micro & nano technologies and embedded software competitive cluster

Minalogic gathers a great number of resources and competencies dedicated to <u>creating and developing new products and smart miniaturized solutions for the industry</u>.

Strategy:

- Mass market & traditional manufactured products become commodities
- Aggressive competition from low production cost countries
- Copies of new products come fast

Move the competition battle from the field of production costs to that of innovation speed,

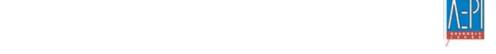
enriched product feature sets & services

Design highly differentiated products

- Miniaturized
- Smart and Communicating

Release innovations faster and more frequently Develop service businesses around products

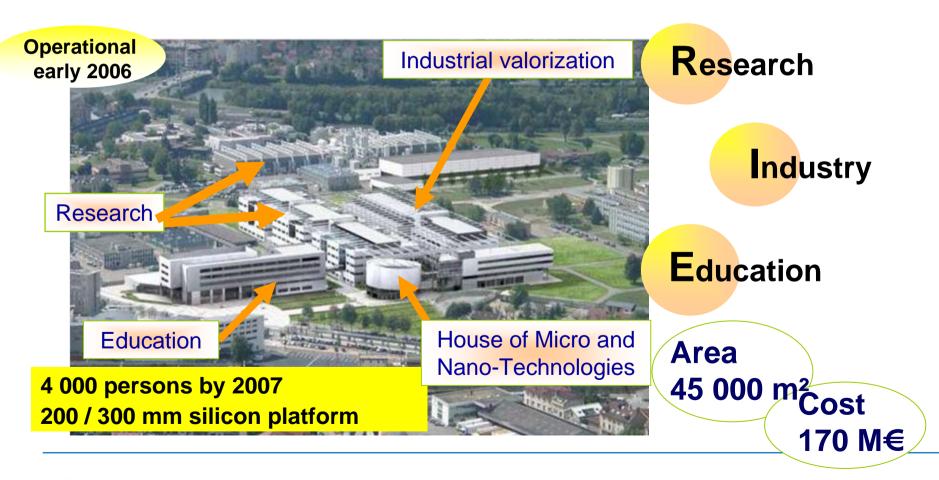






<u>Grenoble-Isère-france</u>

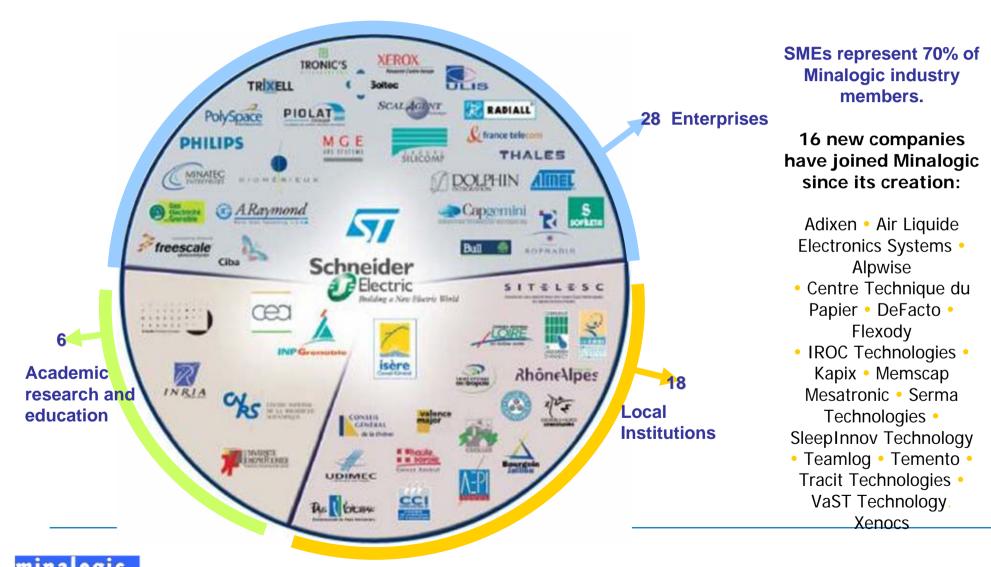
MINATEC:
A scientific hub for education, research and industry







The 52 Founding Partners of Minalogic





Minalogic: Key Figures

Projects certified in 2006

- 30 projects were labellized by Minalogic for a total R&D budget of more than €1.2 billion and submitted in response to three requests for proposals by the Enterprise Competitiveness Fund [Fonds de Compétitivité des Entreprises], ot to the All [Agence pour l'innovation industrielle]
- 31 projects were labellized by Minalogic for a total R&D budget of more than €63 M and submitted in response to requests for proposals by the National Research Agency [Agence Nationale de la Recherche]

Financing

- 3 projects are financed by the All [Agence pour l'innovation industrielle] for a total of €161 million.
- 7 projects are financed by the Directorate General for Enterprise [Direction Générale des Entreprises] for a total of €37.2 M
- 14 projects are waiting for the decision of the Directorate General for Enterprise (will be available by end march)
- 15 projects were financed by the National Research Agency, for total funding of €14 M

79 Members

- 48 companies, including 33 SMEs (70%)
- 10 research centers and universities
- 14 local governments
- 6 economic development organizations
- 1 private investor





Minalogic: Current Running Projects

Core micro-nanotechnologies

- Nanosmart center leader SOITEC, 162M€ over 4 yrs
- Imalogic leader Sofradir, 22 M€ over 3 yrs
- Minimage leader STMicroelectronics, 141 M€ over 4yrs
- Foremost leader STMicroelectronics, 120 M€ over 3 yrs



Embedded System on Chip

- «Atelier du Futur» (Workbench of the future)
 - Multival leader ST Microelectronics, 7M€ over 4 years
 - Sceptre leader ST Microelectronics, 10M€ over 4 years
 - OpenTLM leader ST Microelectronics 12M€ over 5 years



Core technologies applied to industry solutions and services

- Smart Electricity leader Schneider Electric, 20 M€ over 5 yrs
- Homes leader Schneider Electric, 88 M€ over 5 yrs
- Printronics «Large surface electronics» leader Sofileta, 17 M€ over 4 yrs
- Hibrix leader Xenocs, 7 M€ over 3 yrs



+ 15 upstream projects funded by the National Research Agency





THANK YOU FOR YOUR ATTENTION!

Contacts

USA: AEPI - Grenoble-Isère, France, Economic Development Agency

Sharon Rehbinder, Director, North America

2331 Westwood Blvd, # 328, Los Angeles, California 90064

Phone: 310-473-2818, Fax: 310-388-5382 Email: sharon@france.com

Website: http://english.grenoble-isere.com/

In France : AEPI - Agence d'Etudes et de Promotion de

France:

Véronique Pequignat : 33 (04) 76 70 97 04

v.pequignat@grenoble-isere.com

www.grenoble-isere.com





INFORMATION AND COMMUNICATIONS TECHNOLOGY

Spin-offs from research laboratories, universities and Grenoble-Isère companies

• Actim 3D measurement systems (CEA-Leti)

Ad Valor
 Users centric studies, innovation management (UPMF)

• Akazi (W4 in 2004) Administrative process management (Bull, Sema Group, MC2)

• <u>Alira</u> Educational software (Deltalab)

• <u>Allegro</u> Digital video technology (UJF)

Altatech
 Technology equipment and process solutions for advanced film deposition

• <u>Arturia</u> Sound synthesis software (INP Grenoble)

• Asterop Business intelligence software (INRIA)

AuviTran Audio-video and transcoding (Digigram)

• Beamind HDI IC test (CEA-Leti)

• Blue Eye Video Video security systems (UJF-INPG-INRIA)

• <u>Cabriloq</u> Software for geometry (UJF)

• <u>Certess</u> EDA software for design blocks and IPs

• Ciprian Laboratory instrumentation (CNRS)

• Cotranet Intra-extranet solutions (Cap Gemini)





INFORMATION AND COMMUNICATIONS TECHNOLOGY

Coyote Software
 Video games developer

<u>Crocus Technology</u>
 Mram memories (CEA-Spintec)

• <u>DeFacTo Technologies</u> design for test (INP Grenoble)

• **Design Processing Technologies** Software solutions for industry (INP Grenoble/CNRS)

• <u>Design&Reuse</u> Internet database of virtual electronic components (INP Grenoble)

• <u>DGTec</u> Micronic powders (Thomson Multimedia)

• <u>D'Mailer</u> Electronic information management (UJF)

• **Eboo solutions** Digital solutions for video surveillance

• <u>EdXact</u> Electronic design: extraction, analysis and control tools

• **<u>Eloquant</u>** Advanced voice communication solutions for service providers (HP)

• <u>Eve</u> Engineering for electrical and electronical equipments (INP Grenoble)

• <u>H3C-Energies</u> Consultant in energy conservation

• <u>Icatis</u> Grid computing (CNRS/UJF/INRIA/INP Grenoble)

• <u>Ifotec</u> Fibre optic (Radiall)

• Imakina Creation of interactive sites

• Incam Solutions Silicon wafers packaging in miniature clean rooms (CEA-Leti)

• <u>Infiniscale</u> Editeur de logiciel CAO pour les micro et nanotechnologies

• <u>Intexys</u> High speed X-connect systems (CNRS/CEA-Leti)

• <u>IRocTechnologies</u> Integrated robustness on chip. (IMAG-TimA)



INFORMATION AND COMMUNICATIONS TECHNOLOGY

• **Kelkoo** (Yahoo in 2004) Shopping search engine (Bull/Inria)

• <u>Keesda</u> Electronic systems' design automation

• <u>Mataru</u> Network security (INRIA-Sun Microsystems)

• <u>Memscap</u> Design software for complex circuits and virtual components (INP Grenoble-TIMA)

• Musicalis (Emme in 2005) Real time music classes on internet.

• <u>Nanolase/JDS Uniphase</u> Microlaser (CEA-Leti) (Teem Photonics in 2005)

• Nanosprint Virtual science for nanotechnology

Omega Centauri
 Management software on internet

• Opsitech (Memscap in 2003) Integrated optics on optical mems

• Ontologos Corp Software editor

• <u>Opensugar</u> Solutions for providing applications on connected devices (FT R&D)

• Otrix Software editor

• <u>Paxitech</u> Fuel cell membranes (CEA)

• <u>Polyspace</u> Test and validation of embedded aeronautics software (INRIA)

• **Probayes**Bayesian programing techniques(UJF-INRIA)

• Raise Partner Financial risk management (INRIA)

• <u>Scalagent</u> Software (INPG-UJF-Bull)





INFORMATION AND COMMUNICATIONS TECHNOLOGY

• Soisic Technology CMOS/SOI - (CEA-Leti)

• **SOITEC** Silicon On Insulator technology (CEA-Leti)

• <u>Stantec</u> UWB Radio communication system (IMEP)

• Stratelia Silver Peas (OEVO) Internet portal

• <u>TecKnowMetrix</u> Strategic awareness services

• <u>Teem Photonics</u> Optic components for telecommunications (INP Grenoble, Radiall and Schneider)

• <u>Temento Systems</u> CAO software for electronic systems (CEA)

• <u>Tracit Technologies</u> BSOI innovative substrates (CEA-Leti)

(Soitec in 2006)

• <u>Tronic's Microsystems</u> Mems components (Leti-CEA)

• <u>Ulis</u> silicon uncooled infrared components (Leti-Sofradir)

• <u>Valiosys</u> system-on chip design and test software (INPF-TIMA)

• Virtual Actors Virtual reality (UJF)

• <u>Vitamib</u> secure collaborative platforms

• **Volubill** GPRS & UMTS mobile phones invoicing systems (Cegetel)

• Xenocs Optical multi layers systems (ILL)

• Widip Management on Internet for SMEs



