Grenoble-Isère-France

Grenoble (isère) France

Agence d'études et de promotion de l'Isère

AEPI - Grenoble-Isère, France, Economic Development Agency

Arizona Nanotechnology Symposium

April 23, 2007

AEPI GRENOBLE ISERE

minalogic les solutions miniaturisées intelligentes

isère Conseil Général

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

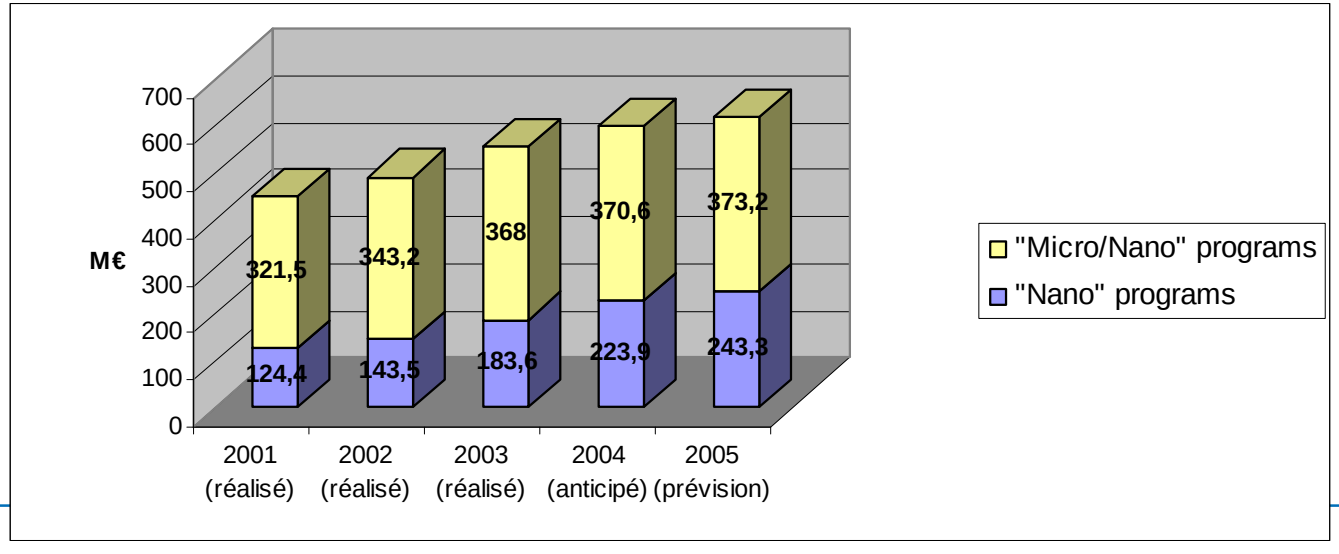
Goal: 3% GDP in 2010

Micro and nanotechnologies public budgets:

445,6 M€ (2001) → 616,5 M€ (2005)

Main recipients: CNRS, CEA, INSERM, …

Estimated private investments: ~ public budget



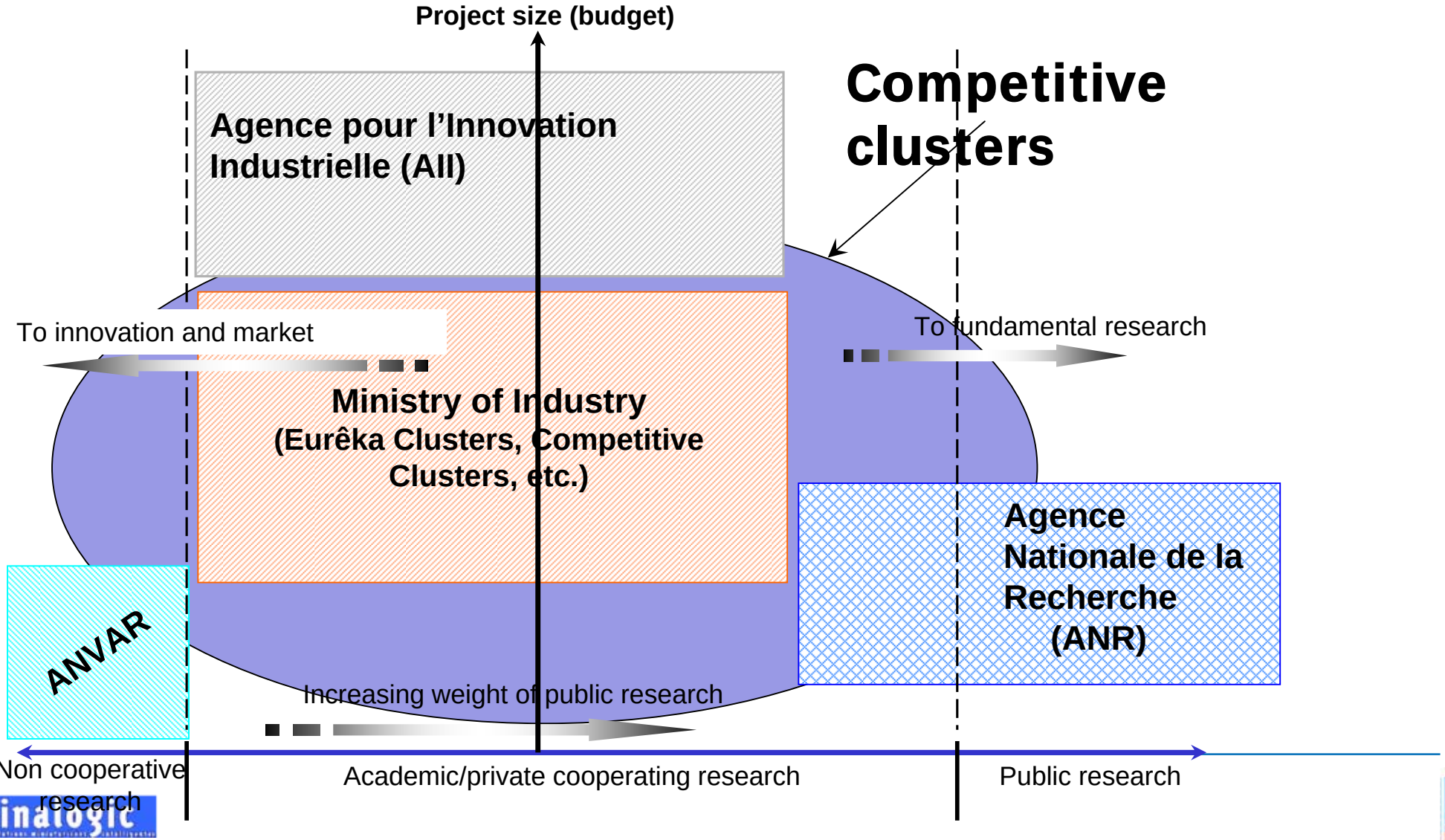
Source : Le financement des nanotechnologies et des nanosciences - L'effort des pouvoirs publics en France - Comparaisons internationales (2004)

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



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Micro & nano technologies and embedded software competitive cluster

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

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

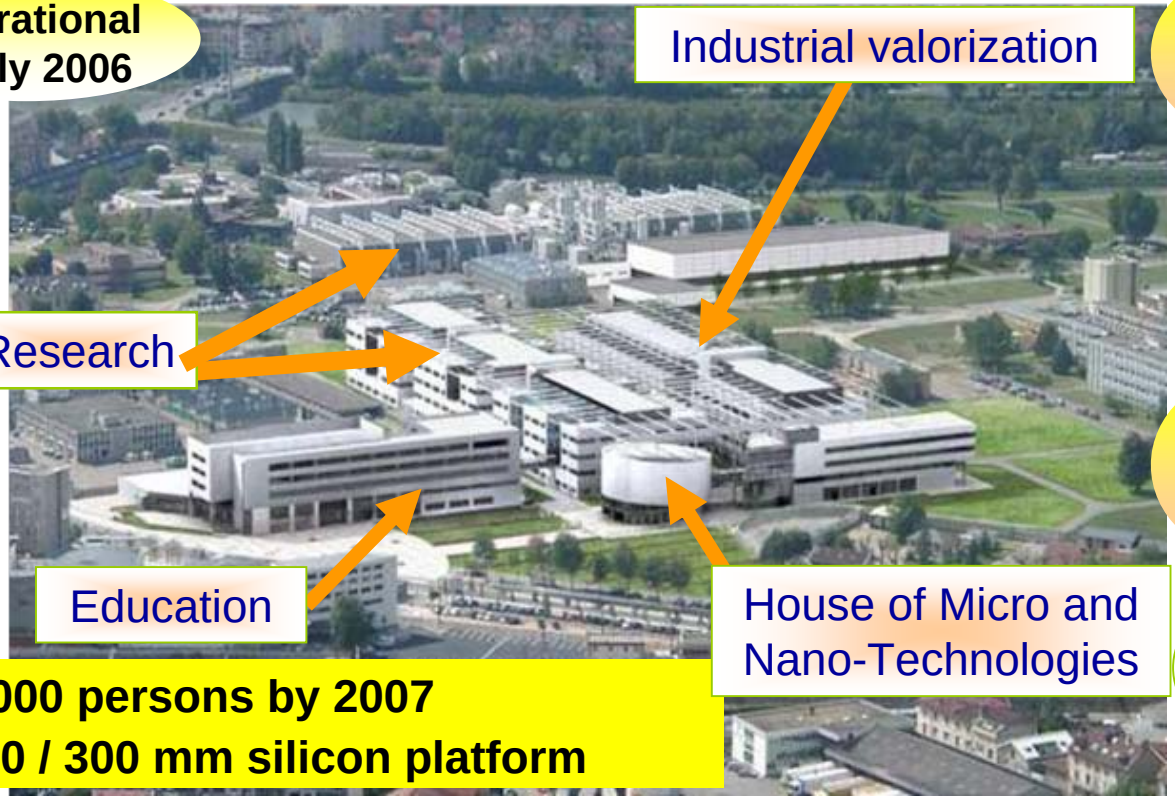
Design highly differentiated products

- Miniaturized
- Smart and Communicating

Release innovations faster and more frequently

Develop service businesses around products

✓ MINATEC : A scientific hub for education, research and industry



Research

Industry

Education

Area
45 000 m²

Cost
170 M€

The 52 Founding Partners of Minalogic

SMEs represent 70% of Minalogic industry members.

16 new companies have joined Minalogic since its creation:

Adixen • Air Liquide Electronics Systems • Alpwise • Centre Technique du Papier • DeFacto • Flexody • IROC Technologies • Kapix • Memscap Mesatronic • Serma Technologies • SleepInnov Technology • Teamlog • Temento • Tracit Technologies • VaST Technology. Xenocs

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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 AII *[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]*

79 Members

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

Financing

- **3** projects are financed by the AII *[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**

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

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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)
• **Alira**	Educational software (Deltalab)
• **Allegro**	Digital video technology (UJF)
• **Altatech**	Technology equipment and process solutions for advanced film deposition
• **Arturia**	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)
• **Cabrilog**	Software for geometry (UJF)
• **Certess**	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
• **Crocus Technology**	Mram memories (CEA-Spintec)
• **DeFacTo Technologies**	design for test (INP Grenoble)
• **Design Processing Technologies**	Software solutions for industry (INP Grenoble/CNRS)
• **Design&Reuse**	Internet database of virtual electronic components (INP Grenoble)
• **DGTec**	Micronic powders (Thomson Multimedia)
• **D'Mailer**	Electronic information management (UJF)
• **Eboo solutions**	Digital solutions for video surveillance
• **EdXact**	Electronic design: extraction, analysis and control tools
• **Eloquant**	Advanced voice communication solutions for service providers (HP)
• **Eve**	Engineering for electrical and electronical equipments (INP Grenoble)
• **H3C-Energies**	Consultant in energy conservation
• **Icatis**	Grid computing (CNRS/UJF/INRIA/INP Grenoble)
• **Ifotec**	Fibre optic (Radiall)
• **Imakina**	Creation of interactive sites
• **Incam Solutions**	Silicon wafers packaging in miniature clean rooms (CEA-Leti)
• **Infiniscale**	Editeur de logiciel CAO pour les micro et nanotechnologies
• **Intexys**	High speed X-connect systems (CNRS/CEA-Leti)
• **IRocTechnologies**	Integrated robustness on chip. (IMAG-TimA)

INFORMATION AND COMMUNICATIONS TECHNOLOGY

• **Kelkoo** (Yahoo in 2004)	Shopping search engine (Bull/Inria)
• **Keesda**	Electronic systems' design automation
• **Mataru**	Network security (INRIA-Sun Microsystems)
• **Memscap**	Design software for complex circuits and virtual components (INP Grenoble-TIMA)
• **Musicalis** (Emme in 2005)	Real time music classes on internet.
• **Nanolase/JDS Uniphase** (Teem Photonics in 2005)	Microlaser (CEA-Leti)
• **Nanosprint**	Virtual science for nanotechnology
• **Omega Centauri**	Management software on internet
• **Opsitech** (Memscap in 2003)	Integrated optics on optical mems
• **Ontologos Corp**	Software editor
• **Opensugar**	Solutions for providing applications on connected devices (FT R&D)
• **Otrix**	Software editor
• **Paxitech**	Fuel cell membranes (CEA)
• **Polyspace**	Test and validation of embedded aeronautics software (INRIA)
• **Probayes**	Bayesian programing techniques(UJF-INRIA)
• **Raise Partner**	Financial risk management (INRIA)
• **Scalagent**	Software (INPG-UJF-Bull)

INFORMATION AND COMMUNICATIONS TECHNOLOGY

• **Soisic**	Technology CMOS/SOI - (CEA-Leti)
• **SOITEC**	Silicon On Insulator technology (CEA-Leti)
• **Stantec**	UWB Radio communication system (IMEP)
• **Stratelia Silver Peas (OEVO)**	Internet portal
• **TecKnowMetrix**	Strategic awareness services
• **Teem Photonics**	Optic components for telecommunications (INP Grenoble, Radiall and Schneider)
• **Temento Systems**	CAO software for electronic systems (CEA)
• **Tracit Technologies** (Soitec in 2006)	BSOI innovative substrates (CEA-Leti)
• **Tronic's Microsystems**	Mems components (Leti-CEA)
• **Ulis**	silicon uncooled infrared components (Leti-Sofradir)
• **Valiosys**	system-on chip design and test software (INPF-TIMA)
• **VirtualActors**	Virtual reality (UJF)
• **Vitamib**	secure collaborative platforms
• **Volubill**	GPRS & UMTS mobile phones invoicing systems (Cegetel)
• **Xenocs**	Optical multi layers systems (ILL)
• **Widip**	Management on Internet for SMEs