



PROJECTS APPROVED

213

TOTAL BUDGET (€M)

511

SCS (Secure Communications Solutions)

INFORMATION AND COMMUNICATION TECHNOLOGY SCIENCES (MICROELECTRONICS, TELECOMMUNICATIONS, SOFTWARE AND MULTIMEDIA)

MAIN INTERESTS

- Designing and developing new solutions incorporating components, software, networks and systems, in order to exchange and process information in a reliable and secure manner.

175 MEMBERS

Major companies: France Telecom Orange, Thalès Alenia Space, ST Microelectronics, Atmel, Extelia, IBM, Texas Instruments, Amadeus, SAP, ST/Ericsson, Gemalto, HP, Altran Technologies, 3M, Oracle, Lagasse, Lyonnaise des eaux, Sage, Sato, etc.

100 SMEs

3 technological platforms CIM Paca (microelectronics): Micro-Packs (Gardanne), Conception (Sophia), Caractérisation (Rousset)

1 CIU Santé (health innovation and usage centre) in Nice

1 shared mobile testing center, "Paca mobile center" in Marseille

R&D WITHIN THE CLUSTER

12,000 RESEARCHERS

22 PROJECTS FINANCED

€24.4M STATE AID

€12.7M FROM THE IF ⁽¹⁾

€8.3M FROM THE NRA ⁽²⁾

NUMBER OF PATENTS FILED IN
2007 BY APPROVED PROJECTS: 27

(1) IF: INTERMINISTERIAL FUND

(2) NRA: NATIONAL RESEARCH AGENCY

EXAMPLE PROJECT

SMARTIMMO

Participants: Vizelia, Trusted Logic, Inria Bordeaux, Keeneo, Hager Controls SAS, ARD, Newsteo SAS, Inria, Orange Labs, Cari, CSTB.

This building automation project was initiated to develop a solution that can be used to offer an integrated view of a building to all interested parties (occupants, managers, owners, maintenance providers, inspections authorities, third-party companies) and to enhance the current services by cross-referencing information from different sources (sensors, other systems). The buildings targeted are those used by small and medium-sized service-sector companies.

Secure Communications Solutions (SCS)

CLUSTER STRENGTHS

→ Number of employees at cluster members: 41,000

- In Provence-Alpes-Côte-d'Azur, ICT is the leading industrial force in the region
- The region enjoys a dominant position on several different markets, including 3rd-generation mobile (3G) and wireless solutions (RFID, Wi-Fi, bluetooth, etc.)
- National RFID center, based in Rousset, with the SCS and Traceability (Valence) clusters as founder members
- National reference in-home healthcare center, based in Nice, coordinated by SCS, Minalogic, Elopsys and Cancer Biohealth clusters, along with the University Hospital Complexes of Nice, Grenoble, Limoges and Toulouse
- The region is home to the European Telecommunications Standards Institution (ETSI) and the World Wide Web Consortium (W3C), 2 standards organizations of crucial importance in determining European standards for 3G telecommunications and the internet.
- The region is one of very few in Europe offering such a large assortment of skills, whether in microelectronics, telecommunications, software or multimedia. In addition to private sector research (6,500 researchers), the SCS cluster can also draw upon a team of 1,200 public-sector researchers, 800 of whom work under the aegis of the CNRS (French National Center for Scientific Research) and 400 under Inria (National Institute for Research in Computer and Control Sciences). 26,000 students have been identified in fields related to ICT.
- The cluster has a presence throughout the Provence-Alpes-Côte-d'Azur region, in:
 - **Sophia Antipolis**, leading technology park in Europe
 - **Rousset**, the leading French center for microelectronics

INTERNATIONAL OUTLOOK

Strong

→ Cooperation with foreign clusters

- Tunisia: partnership agreement in 2007 with three technology parks – Elgazala, Sousse and Sfax
- Italy: partnership agreement in 2007 with Torino Wireless
- Israel: partnership agreement in 2008 with Matimop

→ Participation in European programs

- None

→ Involvement in international projects

- December 2008: Strategic alliance plan agreement signed with Massachusetts Institute of Technology in Boston
- June 2009: “e-3M Tunis 2009”, Franco-Maghreb ICT, telecom and multimedia networking session at the ICT Elghazala cluster in Tunis, Tunisia

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PROJECTS

PROJECT	PARTICIPANTS	DESCRIPTION
ALPHA SANTÉ	Neopost Diva SPS, MS Conseil Laboratoire d'informatique d'Avignon	Topic: document data optimization.
PAC ID, Gestion des services à l'hôpital	IBM (USA), ST Micro- electronics (France-Italy), Nice CHU (University Hospital)	Topic: secure access to hospitals. Aim: to develop an integrated solution based on wireless technology including RFID to optimize the services offered by hospitals. To set up complete traceability in procedures, as well as in equipment and personnel inventory.
ORTOFIB'	Orsay Physics, Atmel SAS, ST Microelectronics, Biophy Research, CRMCN, CP2M/ Tecsen	Developing compact optics incorporating high-performance FIB and efficient ion analysis through pulverization product collection and mass spectrography.
AGOS	HP, Oracle, Grille et Services Proactive, Amadeus, Canal de Provence, INRIA, UNSA, CNRS	Aims: to create an automated and integrated management environment for business and enterprise IT infrastructures.
COSYC	ClearSy System Engineering, Arboost Technologies, Mediterranean University - ERISCS	Aims: to secure software in different applications (managing closing/opening of underground rail doors, guaranteeing systems in environments subject to disturbance, etc.).
ETHER	Amadeus s.a.s, IBM Healthcare and LifeSciences La Gaude, Nice CHU (University Hospital)	Setting up a demonstrator aimed at confirming the added value of a healthcare service offered to travelers upon booking a trip.
MAXSSIMM	Gemalto, ST Micro- electronics, Orange, Toppan Photomasks, NXP, Trusted Logic, Sagem, Amadeus, Vox inzebox, Eurecom	This project paves the way to a comprehensive solution for installing very high-speed Internet on mobile phones. It seeks to ensure security and confidentiality in data exchanges thereby simplifying the use of services on mobile telephones and the ability to access to multimedia content.
SECURE MEDIA SIM	Ecole Politech' Nice Sophia- Antipolis, Atmel SAS, Axalto, France Telecom, F2E, NXP, I3S / CNRS (Creative Team)	This service aims to protect the digital rights attached to mobile video by creating a decoder incorporated into mobile telephone SIM cards. The decoder comprises a digital rights management platform and is compatible with several different DRM systems and will adapt to all other video production technologies.
RFID AERO	Eurocopter, Apsys, Cybernétix, i2e/Amesys, Turbomeca, Oxytronic, One RF, STid, ST Microelectronics, Ecole des Mines of Saint- Etienne, L2MP (CNRS), CEA-Leti	Developing RFID technologies (chips, tags, antennae, information and communication systems) with specialists in the field so as to adapt them to maintenance logistics and aeronautics systems operation issues, while ensuring the authenticity of parts and data security.
MADISON	CNRS, ST Microelectronics, IM2NP CNRS 6137 Universités Paul Cézanne, Provence et Sud Toulon Var, LP3 UMR 6182 CNRS, Mediterranean University, Atmel SAS	Failure analysis methods using dynamic optic stimulation and debug design.

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MECANOS	EURECOM, TRUSTED LABS, UNIVERSITE LIMOGES, TRUSTED LOGIC, SOLIATIS, OBERTHUR Technologies, ID Concept, GEMALTO	Methodology for Framework Applications on New Secured Objects
MERISIER	KEMESYS, STMICROELECTRONICS, Rockwood Wafer Reclaim SAS, VEGATEC, LPPE UMR-6181 CNRS Université Paul Cézanne, ATMEL SAS	Developing an innovative slurry reconditioning method to decrease the cost of the CMP process and the resulting treatment of the effluent.
M-PUB	SESIN, STMICROELECTRONICS, UNIVERSITE DE LA MEDITERRANEE - AIX-MRS II, I3S UMR 6070 CNRS UNSA, PRIM'Vision, TIM (Telecom Italia Mobile)	Developing a trusted platform for advertising on mobile.
SMARTSTACK ex. TRAVIATA	ENSMSE (CMP GC), FOGALE Nanotech, BEAMIND SAS, GEMALTO, STMICROELECTRONICS, CEA LETI	3D-circuit integration (3D IC) with chip-to-chip connections on pathways cutting through the silicon.
COCAS	ENSMSE (CMP GC), CEA LETI, PSI Electronics, INSIDE CONTACTLESS, OBERTHUR Technologies	Developing a family of cryptographic cores including asynchronous integrated-circuit design techniques for processors used in wireless payment applications.
OPTIM	IM2NP CNRS 6137 Universités Paul Cézanne, Provence et Sud Toulon Var, WINLIGHT SYSTEM, Rockwood Wafer Reclaim SAS, STMICROELECTRONICS, KEMESYS, ATMEL SAS	Innovating in recycling process and test-plate inspection technologies.
RATCOM	CEA/DAM, IPROCESS, Météo France, SFR, J&P Géo, DCNS, CEDRALIS, CNRS Géosciences Azur, C2 CONSULTANTS, ACRI IN, BRGM, IFREMER, THALES ALENIA SPACE, ISEN, EURECOM, EUTELSAT, ACRI ST	The RATCOM project (Tsunami and Coastal Warning Network in the Mediterranean) seeks to develop a tsunami and coastal risks warning system, with the key objective of managing local risks.
GESTE	ENSMSE (CMP GC), GIE CB, Université de Caen - Labo Print CRDP, TRUSTED LABS, THALES SECURITY SYSTEMS TOULOUSE, INGENICO, INNOVA CARD, CEA LETI	New methods for assessing payment terminal security.
NEXSAFE	ID3 Semiconductors, ISEN, CEA LETI, NEXESS, CEA LIST	Defining and developing a detection/surveillance solution using RFID technology compatible with severe industrial environments (ionizing and explosive environment), specific to nuclear industries and Seveso directives.