INNOVATIVE PRODUCTS
From R&D projects to innovative products
The Cluster and its innovative projects are supported by:
The significant challenges of today’s society, as well as the perpetual global digital transformation taking place worldwide, are forcing our businesses, communities, ways of decision making and governance to reinvent themselves. These radical transformations are sometimes amplified by the scientific and technological progress whose renewal cycles are constantly experiencing unprecedented changes. Therefore, innovation becomes a paramount step for companies, not only to ensure their survival in existing markets but also to better position themselves in the future emerging markets.

Over 115 innovative companies, who are all members of the Systematic Cluster, exhibit their products in this catalog of innovations and are participating in the digital transformation of industrial markets and services in both France and at the global level.

Every day, the Systematic Paris-Region Competitiveness Cluster accelerates digital projects and supports collaborative innovation by connecting actors in key development sectors, such as: Digital cities, Energy, Enterprise Information Systems, Factory of the future, Healthcare, Security, Telecommunications and Transportation. For these markets, innovation is based on the mastery of key technologies that are at the heart of our ecosystem: Big Data and Artificial Intelligence, Digital Confidence & Cybersecurity, Digital Infrastructures, Free Software, Modeling, Numerical Simulation and HPC, Embedded Systems and Internet of Things.

Therefore, dear readers, we are particularly proud to present you 167 innovation products of our members, the fruit of research and technological evolutions, which concretize and shape our common future, thus contributing in the creation of business values as well as employment in Paris and its suburban region.

With my best regards.

Jean-Luc Beylat
President, Systematic Paris-Region
Our mission is to lead an ecosystem of excellence dedicated to software and digital technologies

Systematic Paris-Region connects its members, in the Paris Region, France and abroad to accelerate the digital transformation and help build a more competitive, responsible and open society. Research institutes and universities, all companies from large international corporations to start-up, investors, institutions and innovation partners are working together to:

- Create and design new products, services and uses thanks to an open innovation platform
- Bring their innovations to the market
- Accelerate the growth and competitiveness of the businesses
- Support economic development within Region

embedded Systems and Internet of Things
Open Source
Modeling, Simulation and High Performance Computing

INNOVATION
800 members
3.1 Billion Euros investment in R&D, including 1/3 of public funding
More than 650 products resulting from collaborative innovation projects

GROWTH
65 SMEs labeled by the cluster for their potential "Graines de champions", "Champions", "Pass French Tech"
1 SME out of 2 certified "Entreprise Innovante des Pôles" raised an average of 1.3 Million Euros
More than 200 purchasing departments from public and private companies participating in the Club Open Business™

ATTRACTION
4 international hubs: China, United States, India, Singapore and the Mediterranean
More than 700 press mentions per year
+ 10,000 corporate event participants
An international network to accelerate the development of our members

The Systematic innovation and technology cluster is active on an European and international level to:

- Promote its network and members
- Facilitate technological partnerships
- Accelerate export projects for SMEs and industries
- Attract talent and investors
- Help make the sector more attractive

In Europe, Systematic Paris-Region is involved in numerous European networks (BDVA, cPPP, EICOSE, EIT Digital) and projects (Artemis, Cosme, ECSEL, H2020, EUREKA clusters, etc.). The cluster has an experience in several European projects including one coordination (Be Wiser http://be-wiser.eu/). Currently we are partner in a H2020 CSA, Platforms4CPS, Digital Chain of Trust and Startup to Scaleup Launchpad Europe (EIT Digital); ESCT Go Global (H2020 Cosme); C-Voucher (H2020 Innosup).

On an international level, the Cluster leads an ecosystem based on its hubs in the United States, China, India, Singapore and the Mediterranean, and its partnerships with local clusters in other strategic geographical zones.
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Cardano Suite
Open Source 3D GIS system

Cardano suite and the associated tools developed by Oslandia enable you to deploy a powerful 3D geographical information system (GIS), for studying, manipulating, cross-referencing, distributing and viewing geolocation data.

Cardano Suite is based on multiple OpenSource 3D components, among them the industry-grade spatial database PostGIS, enhanced with new 3D features. The front-end and visualization part allows immersive views, heterogeneous data visualization and advanced measurements and data manipulation.

Cardano suite integrates completely with distributed information system architectures, and the linked components constitute a powerful platform for managing GIS data incorporating 3D. The product can be used in all domains: space, construction, transportation, energy, geomarketing, decision-taking...

Key selling point(s): 3D dataviz, 3D operations within a database, complex geometric operations, robustness, performances

Key market(s): Digital Cities, Enterprise Information Systems, Factory of the Future, Generic

Main customer(s): EDF, IFSTTAR, IGN, RATP, SNCF

Systematic R&D project(s): E-PLU

Competitiveness cluster(s) co-labeling: Advancity

www.oslandia.com

Contact: Mr Vincent Picavet
vincent.picavet@oslandia.com

Annual revenue: 1.3 M€
Head count: 15 employees
Digital Single Window
An eGovernment Single Electronic Window

The e-Citiz Digital Single Window provides a one-stop shop bouquet of more than 100 e-services and m-services to support eGovernment Business Processes.

It simplifies the relationship between the citizen and the local and central government.

For the Citizen, it means that most of the applications can be accomplished via the Web or a smartphone/tablet, at any time (24/7), without having to wait one’s turn and without having to explain one’s case to a civil servant. The e-Citiz digital service desk automatically checks the presence of mandatory documents, thus reducing the time to process a case. People can track the processing of their case on the Web or from their smartphone/tablet, can answer to a possible request for information submitted by the operator, and can check each stage of the procedure.

The Single Window is secured, accessible, responsive and open. It can be integrated with legacy.

It is compliant with regulations: RGS (Security, ISO-27K), GDPR (CNIL, privacy), RGI (SOA, API, REST) and RGAA (WAI WCAG, Section 508).

Key selling point(s): e-service, m-service, Digital, one-stop shop, single electronic window, accessibility, GDPR, RGAA, Web, mobile

Key market(s): Digital Cities, Enterprise Information Systems

Main customer(s): CD76, CD94, Nouvelle Aquitaine, Occitanie, Pays Loire, Côte d’Ivoire, Luxembourg, Sénégal, Tunisie, Nantes, Rennes

Systematic R&D project(s): PIMI

Product Website: www.e-citiz.com
eSIRIUS - eAPPOINTMENT
Full web queuing management solution including appointment booking service

eSirius™ is the most advanced queue management solution of the market. It offers a smooth and convenient customer reception and enables to manage one or several sites (branch, store, etc.) in a centralized way. It includes appointment scheduling software that is complete, intuitive, full web, open and multiple-site.

Benefits
- Multiple-site reception: real-time supervision, statistics, centralized management of the configuration and rights
- "Full web" architecture without deployment and compatible with the main operating systems
- Easily integrable into your information system
- Active communication
- Appointment management

Use case
Our customer journey solution can simplify reception, direction and patient flow, all along of its medical steps, in hospitals and clinics.

You track your patients from when they make the appointment until they are discharged (invoicing included). Issued with a single reception ticket, they are directed to the various services at each stage of their journey.

Key selling point(s): Powerful customer journey solution with integrated interactive modules and mobile devices connectivity

Key market(s): Digital Cities, Healthcare, Telecommunications, Transportation, Finance, Retail, Public Sector

Main customer(s): Nespresso, BCV, Caisse Desjardins, Pôle Emploi, CAF, CPAM, Leroy Merlin, Decathlon, APHP

Systematic R&D project(s): DERMADOM

Product Website: www.esii.com/en/queue-management-eSirius

ESII
ZI SUD - 2, rue de la Prade
34880 LAVERUNE

www.esii.com

Contact: Mrs Sandrine Benhassan
sbenhassan@esii.com
Annual revenue: 12 M€
Head count: 110 employees
Luceor WiMesh Solution
Move Your Network, Connect Your World

Luceor is a leading network equipment vendor that pioneered next generation WiMesh IP Broadband Mobile Networking technology for Field Operations Networks solutions.

Thanks to LuceorOS our advanced operating system that enable demanding video/voice/data field applications requiring high bandwidth, low latency and seamless mobility with real-time resiliency - where traditional wired, satellite, cellular (4G+) or WiFi networks would be too long to deploy, too expensive to operate or not offering required network performances.

Local authorities rely on Luceor WiMesh solutions to take their critical applications wherever they needed them: Tactical communications, site security, real-time video surveillance onboard public transports, events protection, etc. Major metropole such as the city of Paris and the

French Police forces rely on Luceor WiMesh to run emergency networks and videosurveillance infrastructures.

Logistic operators leverage Luceor’s fast mobility features to maintain broadband communications between their handling vehicles and their management systems.

Key selling point(s): Wireless broadband, Mobility, High performance, Resiliency, Easy to deploy, Your IP network where you need it

Key market(s): Digital Cities, Energy, Security, Telecommunications, Transportation, Logistics

Main customer(s): French Ministry of Interior, Belgium Federal Police, City of Paris, Eurogate, City of Nice, Bouygues, Engie

Systematic R&D project(s): PODIUM

Competitiveness cluster(s) co-labeling: Risques

Luceor WiMesh = High Performance Wireless IP Network for the SafeCity

Product Website: www.luceor.com

LUCEOR
23, avenue Louis Breguet
78140 VÉLIZY-VILLACOUBLAY

www.luceor.com

Contact: Mr Isaac Kalonji
isaac.kalonji@luceor.com

Annual revenue: 3 M€
Head count: 19 employees
Notico
Beyond the state of art in location-based services

The most comprehensive people location app:

- To locate family, friends, colleagues...
- Largest range of smart geocalert notifications
- Beyond state-of-start privacy control system
- Local trade promotion for goods and services (good deals)
- Public warning systems for a variety of crisis and risks
- City hall information or various facts or events
- Utilities information for transport, energy, water...
- Mobile professional management
- Located emergency calls, report of local problems, interoperability with geolocated open data
- Free app, compatible with Android & iOS

Key selling point(s): Privacy by design, automatic information system, geolocated warning system, real-time geolocated information

Key market(s): Digital Cities, Enterprise Information Systems, Generic, Emergencies, Civil protection, Retailers, Public warning systems

Main customer(s): Brands, retailers, authorities, emergency services

Systematic R&D project(s): E-COMP@GNON, VOIE

Product Website: www.notico.com

NOTICO GROUPE DEVERYWARE
43, rue Taitbout
75009 PARIS

www.notico.com

Contact: Mr Stéphane Schmoll
contact@notico.com
Annual revenue: 14 M€
Head count: 85 employees
STREAMDISPLAY
System for broadcasting ads and information via an IP network

DSS STREAMDISPLAY is a system designed by StreamVision for the broadcasting of advertisements and information via an IP network. DSS enables automatic scheduled broadcasting of digital audiovisual content to many display terminals for public viewing. It aims at displaying various contents, including information such as news, scores, warning messages, clips…

DSS can also be a source of revenue in displaying promotional content.

DSS is designed primarily for hotels, businesses, public authorities, shopping malls, public places… DSS can either be used as a stand-alone solution, or be part of StreamVision’s complete IPTV architecture.

DSS includes the following functions:
- Real-time update of the multimedia content
- Multicast distribution through the IP network
- Display on any type of video terminals
- History of every activities and events

Key selling point(s): Key innovations Multiple content offerings and services, virtual environment, unlimited number of users

Key market(s): Digital Cities, Enterprise Information Systems, Healthcare, Audiovisual, Education, Tourism

Main customer(s): The Walt Disney Company, France Télévisions, La Chaîne du Savoir (Algérie), OIF Francophonie

Systematic R&D project(s): COHABIT

Product Website: www.streamdisplay.com/fr/index.html

STREAMVISION
9, rue Notre-Dame de Lorette
75009 PARIS

www.streamvision.com

Contact: Mr Mohamed Rebiai
mohamed.rebiai@streamvision.fr
Annual revenue: 300 k€
Head count: 4 employees
UbiLoop
Mobile app for incident declaration (iOS, Android)

UbiLoop allows the Citizen to report an incident on the public domain (broken lamp, potholes, damaged bench, graffiti, waste, hornets nest, etc.) with his smartphone with automatic geolocation, to attach a picture or a voice message. Customer Service is then notified in real time and can handle the incident. The Citizen is automatically informed of the progress of the resolution.

UbiLoop proposes a new link between the Citizen and Government directly from their smartphone. In addition, it brings transparency to public action.

Key selling point(s): iOS, Android, GPS, incident declaration, Middle Office, White-label

Key market(s): Digital Cities, Transportation

Main customer(s): Essonne department, Grand Paris Seine Ouest, Rennes, Saint-Luce, Sète

Systematic R&D project(s): PIMI

Product Website: en.e-citiz.com/ubiloop
The following products also address the Digital Cities market:

- ARTELYS CRYSTAL CITY - Page 24
- CASTEL - Page 101
- CUSTOMISED WI-FI PRODUCTS DEDICATED TO FACTORY 4.0 AND IOT MARKETS - Page 72
- E-CITIZ - Page 44
- ENERGY MANAGEMENT SOLUTIONS - Page 26
- EVALUATE - Page 104
- G2SMART SOLUTION - Page 27
- GEOL KNOWLEDGE - Page 105
- GREEN PI - Page 142
- LUCEOR EXTREME WIMESH ROUTERS RANGE - Page 144
- M’KEY - Page 173
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- MOBIPASS - Page 148
- OBJECT ID - Page 174
- OPENPAAS - Page 53
- PROTECT - Page 115
- SERVICE & CERTIFY - Page 118
- SME SERVICE PLATFORM (ENERGY MANAGEMENT SYSTEM) - Page 31
- SWIICH - Page 158
- TECHVIZ VR - Page 209
ALICES
Simulation environment for nuclear engineering and training

ALICES is a standalone object-oriented simulation toolset, also open to third-party applications and simulation code. It helps one quickly develop and fine-tune basic simulation applications supporting the engineering cycle of nuclear Instrumentation & Control (I&C) projects, as well as modeling, at full scale, complex industrial facilities.

The ALICES fully programmable workbench allows one developing process system models (thermal-hydraulic, electrical, I&C etc), interface with third-party engineering-graded simulation code such as Cathare, and can also replicate complex human machine interfaces to interact with the simulated installation.

ALICES also incorporates the IMF standard, which allows interfacing with third-party software and application in various modes, including co-simulation with workbenches such as SCADE or Matelo.

ALICES originated in the nuclear field, but can be adapted to all engineering requirements involving physical process simulation models interfaced with complex instrumentation & Control systems.

Key selling point(s): Object-oriented design, open-ended, extremely flexible

Key market(s): Energy, Transportation, Hydrocarbons

Main customer(s): Framatome, EDF

Systematic R&D project(s): CLUSTER CONNEXION

Competitiveness cluster(s) co-labeling: Minalogic

CORYS
44, rue des Berges
38024 GRENOBLE

www.corys.fr

Contact: Mr Christian Leo
cleo@corys.fr
Annual revenue: 60 M€
Head count: 350 employees
Artelys Crystal City
Comprehensive steering of local energy planning

Artelys Crystal City is a decision-assistance software specially designed to facilitate the steering of energy strategy (e.g. Sustainable Energy Action Plan) within cities and communities of municipalities, to reduce their CO₂ emissions. Working via a user-friendly GUI, local officials can design and update their energy planning, manage it on a day-to-day basis, and enhance the support they give to public and private actors, and to citizens.

This innovative tool covers the entire energy chain, from consumer to producer, based on technical, environmental and economic analyses. Artelys Crystal City incorporates advanced modeling and optimization features, and provides Web publishing services.

Key selling point(s): Energy, Multiple-energy-source and multiple-sector analysis, advanced modeling features

Key market(s): Energy, Digital Cities

Main customer(s): Local energy providers, Cities with national energy saving plans, all cities with SEAP obligations

Systematic R&D project(s): CITINES

Competitiveness cluster(s) co-labeling: Advancity

ARTELYS
81, rue St Lazare
75009 PARIS

www.artelys.com

Contact: Mrs Rebecca Aron
rebecca.aron@artelys.com

Annual revenue: 3.02 M€
Head count: 45 employees
Artelys Crystal Energy Planner
Short to mid-term optimization and planning of energy systems

Artelys Crystal Energy Planner is a fully customizable software based on an extensive library of pre-built asset models and operational workflows. It allows the user to model realistically and completely its own energy system (production assets, supply and sales contracts, markets, stocks) and to reflect its operational processes.

Thanks to its state-of-the-art optimization engine, Artelys Crystal Energy Planner takes advantage of the system flexibility to automatically generate reliable least cost schedules together with optimized bid offers. The generated schedules satisfy all operational constraints, take into account environmental impacts, and maximize the operating profit.

Key selling point(s): Detailed power system model, optimized generation plans, customizable workflow to reflect operational process

Key market(s): Energy, Digital Cities

Main customer(s): Local energy providers, Cities with national energy saving plans, all cities with SEAP obligations

Systematic R&D project(s): CITINES

Competitiveness cluster(s) co-labeling: Advancity

Artelys Crystal Energy Planner is a proven and innovative software. Its user-friendly interface has been designed to ease input data, visualize production plans and export them; this whole process fitting into your existing IT architecture.
Energy Management Solutions

Energy optimization software solutions for businesses of all sizes

AVOB Solutions responds to the critical energy optimization issues of small, medium and large businesses. Thanks to the power of AVOB Platform, these reference solutions offer easy deployment combined with unique analysis and control features. The positive impact on the energy performance of a company, its security and quality of service provides significant added value and provides up to 40% energy savings.

Universal and Adaptable
Detect and gain control of all of the company’s consumption items: lighting, heating, air conditioning, computer equipment etc.

Remote Control
Automatically act on deviations, control consumption in a planned manner, and maximize ROI by remotely controlling connected devices.

Multisite & Centralized
Manage any business, from one small building to a skyscraper through a network of bank branches, and benefit all types of user.

Monitoring
Understand consumption, identify drifts, get real-time alerts, define a plan of action, produce professional reports in the Dashboard, verify savings and measure ROI.

Key selling point(s): Monitoring, Automatic control & Energy services

Key market(s): Energy, Digital Cities, Enterprise Information Systems, Smart Buildings

Main customer(s): Presidency of the French Republic, Bollore Logistics, AG2R La Mondiale, Webhelp, Intermarché

Systematic R&D project(s):
ENERGY POSITIVE IT 2.0

AVOB - ALTERNATIVE VISION OF BUSINESS
84, avenue du Général Leclerc
92100 BOULOGNE-BILLANCOURT

www.avob.com

Contact: Mr Olivier Sudan
osudan@avob.com
Head count: 11 employees
G2smart Solution
Energy management solution for electric vehicles charging stations

G2smart smooths the charging point consumption with peak shaving and load shifting, so that the EVs (Electric Vehicles) get charged mostly during off-peak hours.

It also measures the electric capacities of the building, taking the constraints of the user into account, to adapt in real time the power given to the EVs. During the day, the more the building needs energy, the less the EVs are given energy. On the meantime, the needs of the driver are included: EVs will be charged to hit the road. With this innovation, the administrator reduces his energy bill and avoids major works when setting up his charging station. The building does not need significant electric capacities: this innovation mixes electric mobility and smart grids to integrate charging stations without impacting on the environment.

On G2smart web portal, the administrator can manage charging points remotely (charge point booking, energy metering, access to CSR data...).

G2smart is compatible with all OCPP compliant charging points.

Key selling point(s): Dynamic Smart Charging, Multi-brand compatible, Evolutionary

Key market(s): Energy, Digital Cities, Enterprise Information Systems, Smart Grid, Smart City

Main customer(s): La Poste, ENEDIS, CEA, Bouygues Energies et Services, Accenture, CBRE, SNCF, Société Générale, Crédit Agricole

Systematic R&D project(s): SCE

Competitiveness cluster(s) co-labeling: S2E2

G2mobility
6, rue Dewoitine
78140 VÉLIZY-VILLACOUBLAY

www.g2mobility.com

Contact: Mr Pierre Clasquin
pierre.clasquin@g2mobility.com

Annual revenue: 6 M€
Head count: 26 employees
InstaCast, HourCast and DayCast
Solar power forecasting solutions

Reuniwatt has developed different solutions enabling a massive and secure injection of photovoltaics into electricity grids. PV power production is highly dependable on the weather and its intensity significantly varies whenever there is cloud coverage or not.

InstaCast, HourCast and DayCast are Software as a Service solutions that help the different energy stakeholders (solar producers, transmission and distribution system operators, plant managers, energy traders, off-grid project developers, aggregators…) better manage solar energy:

- InstaCast makes the most of Reuniwatt’s specifically developed sky cameras, to monitor the cloud cover in the next minutes with an unprecedented accuracy.

- HourCast is a service for intraday solar forecasting, based on the treatment of real time satellite images coming from several geostationary satellites to cover the entire planet.

- DayCast is Reuniwatt’s solution to obtain day- and week-ahead solar forecasts. Its algorithms are based on weather models optimised for cloudiness and irradiance forecasting.

Key selling point(s): Tailored solution, innovative, Software as a Service

Key market(s): Energy

Main customer(s): Solar energy producers, Energy traders, Transmission and Distribution System Operators

Systematic R&D project(s): SCE

Competitiveness cluster(s) co-labeling: Capenergies, S2E2

Product Website: www.reuniwatt.com/en/intraday-solar-forecasts/

REUNIWATT
14, rue de la Guadeloupe
97490 SAINTE-CLOTILDE

www.reuniwatt.com/en/

Contact: Mrs Marion Lafuma
marion.lafuma@reuniwatt.com
Head count: 17 employees
modeFRONTIER
Integration Platform for Multi-Objective & Multi-Disciplinary Optimization

modeFRONTIER is an integration platform for multi-objective & multi-disciplinary optimization. It provides a seamless coupling with third party engineering tools, enables the automation of the design simulation process, and facilitates analytic decision making.

modeFRONTIER® is the state-of-the-art technology you need to achieve your optimal solution.

Key selling point(s): Improving product performance, Understanding crucial cost/performance factors, Reducing development time

Key market(s): Energy, Transportation, Consumer Goods, Construction, Electronics, Marine, Off-shore

Main customer(s): DCNS, MBDA, AIR LIQUIDE, MESSIER BUGATTI DOWTY, BERTIN TECHNOLOGIES, DAHER

Systematic R&D project(s): MUSICAS

Product Website: www.esteco.com/modefrontier/modefrontier-platform-overview

ENGINSOFT FRANCE
88, avenue Général Leclerc
92100 BOULOGNE-BILLANCOURT

www.enginsoft.com/fr

Contact: Mrs Marie-Christine Oghly
m.oghly@enginsoft.com
Annual revenue: 1.8 M€
Head count: 10 employees
SIMEO Consulting
Tool for simulation of aging of reinforced concrete infrastructures

SIMEO Consulting is a digital simulation tool allowing one to evaluate the aging of a reinforced concrete structure as regards corrosion risks.

The tool takes account of the principal material characteristics of the structure considered, and provides a deterministic and probabilistic information to help managers take decisions with respect to their maintenance policy.

This information is particularly useful in the present-day context in which the issue of extending the operational lifetime of infrastructures is a major concern for all managers.

Key selling point(s): Aging simulation, prognostic, integration of uncertainties, assistance with decision-taking

Key market(s): Energy, Transportation

Main customer(s): Areva, Cofiroute, EDF, Electrabel, Ministry of Defense, Paris airports authority, RFF, Statoil, SNCF, Total

Systematic R&D project(s): ILMAB

Competitiveness cluster(s) co-labeling: Advancity

OXAND FRANCE
49, avenue F. Roosevelt
77210 AVON

www.oxand.com

Contact: Mr Bruno Capra
bruno.capra@oxand.com
Annual revenue: 11.5 M€
Head count: 130 employees
SME service platform (Energy managment system)
Energy bill optimization system

Turnkey system for tracking, steering and optimizing energy streams and environmental data. Alfileo's offering includes an ensemble of Web applications compatible with a broad range of data-gathering systems, allowing fine tracking and analysis of energy generation and/or consumption of installations: solar power plants; service, residential and commercial buildings; and industrial sites.

Alfileo also offers a communicating energy storage system connected to an electrical power modulation program (demand/response) that enables one to reduce the expenditure and power bills associated with climatic and industrial cooling.

Key selling point(s): Non-proprietary multiple-energy-form system
Key market(s): Energy, Digital Cities
Main customer(s): Design offices, Manufacturers, Solar power plant and real estate managers
Systematic R&D project(s): MONISOL
Competitiveness cluster(s) co-labeling: Tenerrdis

ALFILEO
12, rue Georges Blandon
78430 LOUVECIENNES

www.alfileo.com

Contact: Mr Philippe Junca
philippe.junca@alfileo.com
Head count: 6 employees
SPOONY
Cloud Device, is the solution

Directly installed within an electric panel (format DIN 3/2), captures energy consumption data, analyzes and transmits it through the Cloud. This programmable device can answer to any request regarding energy management system.

Product advantages:
- Evolutive solution
- Plug&Play
- Cloud connected
- Secured
- Intelligent (automate)
- Single-phase/Three-phase
- Load management
- Ethernet/WiFi/3G
- Mesh Network

Key selling point(s): Cloud device, energy meter, open-ended clearance, autonomous, secure

Key market(s): Energy, Generic

Main customer(s): General Electric, Alstom Transport, Direct Energy, Bouygues, Renault, Toshiba, Microsoft, French Government

Systematic R&D project(s):
ENERGY POSITIVE IT 2.0

Competitiveness cluster(s) co-labeling:
Minalogic

DOTVISION
42, rue de l’Innovation
77550 MOISSY-CRAMAYEL

guillaume.pelletier@dotvision.com

Annual revenue: 600 k€
Head count: 9 employees
WebdynGRID
Ethernet - CPL G3 router dedicated to Smart Grids

The WebdynGRID platform is a router dedicated to Power Line Carrier (PLC) networks and whose main function is to transfer IP packets between an Ethernet network and a PLC-G3 network, particularly in the new Smart Grid architectures.

Key applications:
- Town management (lighting columns, electric car recharging terminals, etc.)
- Backbone of an IP network via a low-voltage network
- Adaptable to the Smart Metering data concentrators (remote meter reading)
- ...

Product benefits:
- Core of Smart Grid networks
- Seamless end-to-end IP network

Key selling point(s): Technology compliant with “G3-PLC Alliance” specifications, Low cost, Embedded power supply, Compact

Key market(s): Energy, Enterprise Information Systems, Telecommunications

Systematic R&D project(s): TILAS

Product Website: www.webdyn.com/plc-g3-router-webdyngrid/?lang=en

WEBDYN
26, rue des Gaudines
78100 SAINT-GERMAIN-EN-LAYE

www.webdyn.com

Contact: Mrs Aline Carduner
aline.carduner@webdyn.com
Annual revenue: 3.5 M€
Head count: 20 employees
WEBDYNSUN
M2M hub for industrial and residential energy efficiency

WebdynSun is an M2M hub for monitoring the production of industrial or residential photovoltaic systems. The concentrator gathers data from inverters, electric meters and environmental sensors (irradiation, temperature...). This data is formatted and fed back to an IS via a GPRS or Ethernet link. In parallel, the hub has an alarms engine for detecting anomalies.

The hub is programmable remotely or locally.

Key selling point(s): Multi-protocol hub, energy efficiency, two-way M2M link

Key market(s): Energy, Energy efficiency in buildings

Main customer(s): Alfileo, EDF ENR, INEO, QOS, Solar Direct, Urba Solar...

Systematic R&D project(s): MONISOL

Competitiveness cluster(s) co-labeling: Tenerrdis

WEBDYN
26, rue des Gaudines
78100 SAINT-GERMAIN-EN-LAYE

www.webdynsun.com

Contact: Mr Philippe Faugeras
philippe.faugeras@webdy.com
Annual revenue: 3.5 M€
Head count: 20 employees
The following products also address the Energy market:

- CALLIOPE LTE PLATFORM - Page 138
- CORPORATE ID - Page 71
- CUSTOMISED WI-FI PRODUCTS DEDICATED TO FACTORY 4.0 AND IOT MARKETS - Page 72
- DATAMETRIE GLOBAL EXPERIENCE - Page 189
- E_TALEA: BRIDGING THE GAP AMONG DISCIPLINES - Page 190
- GEKKO - Page 170
- GNATCOVERAGE - Page 193
- JAGUAR - Page 107
- JAGUAR NUC FAMILY - Page 108
- LS OBSERVER - Page 143
- LUCEOR EXTREME WIMESH ROUTERS RANGE - Page 144
- LUCEOR WIMESH SOLUTION - Page 14
- M’KEY - Page 173
- MONARCH LTE PLATFORM - Page 149
- NCSIMUL 4CAM - Page 74
- OBJECT ID - Page 174
- ODYSSEE - Page 75
- PERMAS - Page 175
- PHICONTROL - Page 176
- PHISIM - Page 177
- PROACTIVE WORKFLOWS & SCHEDULING - Page 55
- PROLB - Page 178
- PROVENCORE - Page 116
- PROVENCORE-M - Page 117
- ROKCELL - Page 179
- RUM BI - Page 203
- TECHVIZ I3 INTERACTIVE IMAGE INTEGRATION - Page 122
- TECHVIZ VR COLLABORATION - Page 210
ENTERPRISE INFORMATION SYSTEMS
Abilian SBE
Open source platform for social business applications

Abilian Social Business Engine (SBE) is a modular and open source software platform designed to help build business applications and information systems integrating emerging collaboration (Enterprise 2.0), as well as more traditional EIM (Enterprise Information Management) systems. Abilian SBE helps your employees and your community / ecosystem work more efficiently by sharing information and activities, thanks to building blocks dedicated to: enterprise social networking, wikis, document sharing, knowledge management, activity streams, tagging, search...

It also allows your organization to manage business information and processes, in a collaborative manner, and to steer these activities thanks to its reporting capabilities.

Abilian SBE has been used, both on intranets and extranets, to build a wide range of business applications: community relationship management systems for several french clusters, conference management systems, B2B event management systems, workflow and helpdesk for a major university, etc.

Key selling point(s): Component-based extensible architecture, standards compliant (Activity Streams 2.0, CMIS...), cloud-ready

Key market(s): Enterprise Information Systems

Main customer(s): Sorbonne University, Systematic, AFPC, Aquinetic

Systematic R&D project(s): WENDELIN

Product Website: www.abilian.com

ABILIAN SAS
1, square de Port Royal
75013 PARIS

www.abilian.com

Contact: Mr Stéfane Fermigier
sf@abilian.com
Annual revenue: 200 k€
Head count: 3 employees
ClicforHelp
Real-time online support between real people

ClicforHelp is a real-time e-interaction solution featuring Clic-to-Chat, Clic-to-Show and Clic-to-Share functionalities embedded in a service community management and value accounting platform.

The white label platform is dedicated to provide support desks, customer relationships and expert panels a system to monetize real-time WebChat, ScreenSharing or Remote Control services.

Based on the SparkAngels platform used by more than 1/2 million people and 1 000 enterprises for already more than 280 000 hours, ClicforHelp enables a new way to get real help from real people in real-time. Enterprises can now offer each customer a Web interaction close to a store experience, can reduce support costs with instant and multiple conversations, can increase customer satisfaction with real people interaction and can facilitate the sharing of know-how and skills development.

Key selling point(s): P2P screen sharing & control, WebChat time accounting, real-time communication, API CRM integration
Key market(s): Enterprise Information Systems, Generic, E-commerce enterprises, online service providers, software editors, IT solution integrators, large distributed companies
Main customer(s): AKIO, BPI, Coheris, Darty, Massy City
Systematic R&D project(s): PROJESTIMATE
Competitiveness cluster(s) co-labeling: Cap Digital
Product Website: www.clicforhelp.com

SPARKOM
7, rue de la Croix Martre
91120 PALAISEAU
www.spark-angels.com

Contact: Mr Franck Rougeau
contact@sparkom.com
Annual revenue: 100 k€
Head count: 2 employees
CryptPad
Zero-knowledge real-time collaboration suite

CryptPad allows users to securely collaborate on documents in real-time. The technology functions without the server having access to the decrypted content (zero-knowledge technology).

The features currently available are:
- Secure storage of document in a drive
- Real-time editing of rich-text documents including images
- Real-time editing of markdown documents and slides, whiteboards, polls
- In 2018 we are launching Kanban, office documents editing

CryptPad uses a variant of the Operational transformation algorithm which is able to find distributed consensus using a Nakamoto Blockchain, a construct popularized by Bitcoin.

The algorithm can avoid the need for a central server to resolve Operational Transform conflicts and therefore the server can be kept unaware of the content which is being edited in the browser.

At a time where the privacy of our information is questioned every day, CryptPad brings a new way to build applications that are secure by design.

The service is available at https://cryptpad.fr/.

Key selling point(s): Collaborative editor, open-source, zero-knowledge, real-time

Key market(s): Enterprise Information Systems, Security

Main customer(s): Internet users

Systematic R&D project(s): RESILIENCE UNG

Competitiveness cluster(s) co-labeling: Cap Digital

Product Website: www.cryptpad.fr

XWIKI SAS
35, rue Beaubourg
75003 PARIS

www.xwiki.com

Contact: Mr Ludovic Dubost
ludovic@xwiki.com
Annual revenue: 1.5 M€
Head count: 40 employees
CubicWeb
Free software for an open data Web

CubicWeb is a semantic web application framework, licensed under the LGPL, that empowers developers to efficiently build web applications by reusing components (called cubes) and following the well known object-oriented design principles. CubicWeb has been successfully used to implement large public datastores that enrich their own data with external Linked Data: data.bnf.fr, datalocal.fr, etc.

Its main features are:
- An engine driven by the explicit data model of the application
- A query language named RQL similar to W3C’s SPARQL
- A selection+view mechanism for semi-automatic XHTML/XML/JSON/text generation
- A library of reusable components (data model and views) that fulfill common needs
- A library of data refining functions (record-linkage, clustering, etc.)
- The power and flexibility of the Python programming language

Key selling point(s): Data Federation, Open Data, Linked Data, Semantic Web, Data Viz
Key market(s): Enterprise Information Systems
Main customer(s): Bibliothèque nationale de France, Transdev, France Archives, Engie, Conseil Général de Gironde, EDF, GDF Suez
Systematic R&D project(s): OPEN HPC

Web page gathering pieces of data coming from distinct silos (source: http://data.bnf.fr)

The reliability of SQL databases, LDAP directories, RDF databases, Mercurial for storage backends.

CubicWeb is the first class solution for integrating your data into the Web of data.

LOGILAB
104, boulevard Auguste Blanqui
75013 PARIS

www.logilab.fr

Contact: Mr Nicolas Chauvat
nicolas.chauvat@logilab.fr
Annual revenue: 1.7 M€
Head count: 20 employees

Product Website: www.cubicweb.org
DORM (Derived Objects Repository Manager)
Repository manager for derived objects, centralizing the best software practices

DORM is a repository manager for derived objects, combining the best software practices and project methodologies.

It promotes collaboration between developers (DEV), testing teams (QA) and operations staff (Ops).

Tool contributing to the deployment of a DevOps approach, DORM has the ability to integrate with all the tools and processes of the software workshop, testing and production to help increase the frequency of software production and maintain an optimal level of confidence in products from all parties involved in the software.

Designed as a toolkit, it can be deployed for teams of all sizes and for projects involving different methodologies and different languages.

Key selling point(s): Open Source Repository manager for derived objects

Key market(s): Enterprise Information systems

Main customer(s): AFP, BNP Paribas, Bouygues Telecom, ERDF, ING, Le Figaro, M6...

Systematic R&D project(s): DORM

ZENIKA
10, rue de Milan
75009 PARIS

www.zenika.com

Contact: Mr Laurent Delvaux
commercial@zenika.com
Annual revenue: 21 M€
Head count: 250 employees
**e-Citiz**

**Design and deployment of digital single windows**

e-Citiz is an e-Service and m-Service modeler, generator and engine that enables public sector organizations and companies to fully implement their business processes.

The system allows you to generate very quickly a range of e/m-services to simplify the relationship between the citizen and the local and central government or between a company and its employees, partners and customers. e-Citiz gives you the means to dematerialize your business processes within a short time at low cost.

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**Key selling point(s):** BPM, MDA, e-service, m-service, digital, remote services, remote procedures, one-stop shop, single electronic window, accessibility, GDPR, RGAA, Web

**Key market(s):** Enterprise Information Systems, Digital Cities

**Main customer(s):** Airbus, BCA, CD76, CD94, Certinomis, ETSCAF, Kea, Ministère Tunisie, Pays Loire, Poste Sénégal, SNCF, Supélec

**Systematic R&D project(s):** PIMI

**Product Website:** [www.e-citiz.com](http://www.e-citiz.com)

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**SOFTEAM**

**21 avenue Victor Hugo**

**75016 PARIS**

**www.e-citiz.com**

**Contact:** Mr Olivier Nicolas

**info@e-citiz.com**

**Annual revenue:** 100 M€

**Head count:** 1 000 employees
EasySOA

Agile and non-intrusive governance system for information systems (SOA architecture)

EasySOA Registry is a system for agile and non-intrusive governance of service-oriented information systems (IS). It provides CIOs and SOA system designers with a proper documented mapping of the IS, together with high-level indicators allowing one to organize and manage its evolutions, in a collaborative manner involving all players. It integrates with developers’ practices and tools, and gives them a single point of access to the information and tools for each service. In addition, it fields an “à la carte” offering for fast monitoring, modeling and prototyping. It is based on an SOA model that pervades and reconciles every layer (specifications, development and operational running), and is extracted automatically by innovative service discovery mechanisms.

Key selling point(s): Automated extraction of the SOA model, unified business and technical monitoring, HTTP mining, service mash-ups

Key market(s): Enterprise Information systems

Main customer(s): Agence Nationale des Chèques vacances, Autorité des marchés financiers, Casden banque populaires

Systematic R&D project(s): EASYSOA
ERP5 is an auditable, highly scalable, open source enterprise application framework with fine-grained security settings used for managing all aspects of business including:

- Material Resource Planning (MRP)
- Data and Knowledge Management (KM)
- Customer Relationship Management (CRM)
- Electronic Commerce (EBIZ)
- Financial Management (FM)

ERP5 is based on 5 generic concepts which form the architecture of the core system and all extensions and create a simple and compact data model implemented with a “Pure Object” data and storage approach. This allows to build highly customizable business applications tailored specifically to existing business practices.

ERP5 includes two JavaScript frameworks (renderJS, jIO) that allow components or the full suite to be run as HTML5 mobile web application on smartphone and tablets including full offline and synchronization capabilities across devices. The frameworks enable rapid prototyping and development of any type of business application lowering upfront hardware requirements and necessary staff training.

Key selling point(s): Highly customizable, scalable ERP, can be run as HTML5 Web Application with offline and synchronization

Key market(s): Enterprise Information systems

Main customer(s): Aerospace, Banking, Manufacturing, NGO, Tolling

Systematic R&D project(s): CLOUD CONSULTING

NEXEDI SA
147, rue du Ballon
59110 LA MADELEINE

www.nexedi.com

Contact: Mr Sven Franck
sven.franck@nexedi.com
Annual revenue: 2 M€
Head count: 30 employees

Product Website: www.erp5.com
Estimancy provides an Automated Estimation Service for IT projects, based on Machine Learning technology.

This innovation allows automatic costing of projects:
- Software projects estimates easier, faster, and above all, more reliable, in accordance with best practices
- A more automated quotation process, allowing capitalization, reuse, and version.
- Optimised suppliers quotation process control, according to contract
- SaaS - Open Source

**Key selling point(s):** Estimation Automation

**Key market(s):** Enterprise Information systems, Generic

**Main customer(s):** SNCF, IMPETO MEDICAL, Banque de France, Peugeot Citroën

**Systematic R&D project(s):** PROJESTIMATE

**Product Website:** www.estimancy.com

**ESTIMANCY**
7, rue de la Croix Martre
91120 PALAISEAU

**Contact:** Mr Patrick Hamon
patrick.hamon@estimancy.com

**Annual revenue:** 130 k€
**Head count:** 5 employees
GrandeNet
re6st-based Application Delivery Network (ADN) for deploying applications on a stable network in China

GrandeNet is an application delivery network (ADN) based in China. It can serve applications on a stable resilient network in areas with low or unstable internet connectivity.

To do so, GrandeNet is using re6st, an IPv6-based low latency overlay network. re6st creates a resilient, scaleable network “on top” of an existing IPv4 network by creating “tunnels” (connections) on demand and then routing targeted traffic through these tunnels.

While classical network-routing sends traffic along the estimated shortest direct route between two computers, re6stnet guarantees connectedness between those two computers through constantly monitoring all possible routes for availability, connection speed and data consistency. In case the direct route isn’t available, GrandeNet can quickly identify and fallback to the best route available at any moment.

This way GrandeNet allows to create very large, stable networks for application delivery and can provide a vital service by ensuring applications are accessible throughout China.

Key selling point(s): Stable, resilient and scalable IPv6-based network for applications delivery in low-connectivity areas in China

Key market(s): Enterprise Information systems

Main customer(s): Aerospace, Banking, Manufacturing, NGO, Tolling

Systematic R&D project(s): RESILIENCE UNG

Screenshot GrandeNet website

Product Website:
www.grandenet.cn/en

NEXEDI SA
147, rue du Ballon
59110 LA MADELEINE

www.nexedi.com

Contact: Mr Sven Franck
sven.franck@nexedi.com
Annual revenue: 2 M€
Head count: 30 employees
Inventive Toolkit
Dedicated tools for pertinent analysis

Inventive Toolkit is an innovative platform that allows creating dedicated and cost-effective software analysis.

It permits the building of new analysis, new visualizations, or complete browsers and reporting tools.

With Inventive Toolkit Synectique built tools that address your specific problems.

Key selling point(s): Meta tool, decision help, code analysis, refactoring, metrics, program visualization

Key market(s): Enterprise Information Systems, Generic

Main customer(s): Thales, Siemens, Generali, 4D

Systematic R&D project(s): SAFEPYTHON, SQUALE

Product Website: www.synectique.eu/en

SYNECTIQUE
165, avenue de Bretagne - Euratechnologies
59000 LILLE

www.synectique.eu

Contact: Mr Stephane Ducasse
stephane.ducasse@inria.fr
Annual revenue: 1 M€
Head count: 5 employees
MaTeLo implements a Model-Based Testing approach in a user-friendly environment.

Starting from application usages, business requirements or user stories, testers design models able to automatically generate optimized test suites based on testing strategy and expected results. Test suites can be exported either to automatic execution tools or to test management tools for manual execution.

Thanks to a very powerful and ergonomic model, MaTeLo is able to automatically generate test cases that:

- Demonstrate how your system fulfill its requirements
- Take into account your integration strategy
- Are easy to reconfigure in case of changes
- Are immediately usable on your test benches (COTS or customized)
- Cover the whole cycle development (MIL, SIL, HIL...)

MaTeLo main benefits are:

- Fast ROI on test design, execution and maintenance
- Reduced time to market, by increasing test duration
- Defects revealed earlier and business impacts limitation
- No «pesticide paradox» by generating new test suites
- Better test coverage based on risk and priority analysis

Key selling point(s): Model-based testing, automatic test generation, immediate usage on commonly-used test benches

Key market(s): Enterprise Information systems, Telecommunications, Transportation

Main customer(s): AXA, Alcatel, IER - Groupe Bolloré, Ericsson, General Electric, Magneti Marelli, Visteon, Delphi, Thales Com

Systematic R&D project(s): CLUSTER CONNEXION, COVADEC, EQUITAS, SINETIC

Competitiveness cluster(s) co-labeling: i-Trans, iDforCAR, Mov’eo
VirtuOR is providing a new generation of network box, the “MNetbox”, to help enterprises get access to their local and external services easily without wasting time and money for managing complex installation and configuration to reach their Cloud service providers. In a few minutes, you can deploy your selected services through MNetBox portal: Storage, Game, VoIP, Switches, SDN Controllers, Routers, etc.

We maintain your network, support any network service and improve your already deployed infrastructure. Many networks App are already available on our MNetStore ready for deployment and more will come.

We provide an on-demand, flexible, guaranteed, and secure access to Cloud services for your business needs.

With the “MNetbox”, get the Cloud services within easy reach in one Click.

Key selling point(s): On demand and flexible Cloud services for your business needs

Key market(s): Enterprise Information Systems, Digital Cities, Telecommunications, NFV, Network, Virtualization, Cloud Hybride

Main customer(s): Enterprise SME

Systematic R&D project(s): ELASTIC NETWORK, RAVIR

Product Website: www.virtuor.net

VIRTUOR
112, allée des Érables BP 58001 VILLEPINTE 95945 ROISSY CH DE GAULLE CEDEX

Contact: Mr Othmen Braham
othmen.braham@virtuor.net
Annual revenue: 60 k€
Head count: 3 employees
Obeo SmartEA

Obeo SmartEA is a pragmatic and agile solution to align IT with business objectives. It brings large companies all of Obeo’s know-how in modeling complex systems to enable organizations to perform at the highest level and create value.

Obeo SmartEA allows several architects to simultaneously and consistently map an enterprise, by using ArchiMate®, ‘The Open Group’ standardised modeling language. With Obeo SmartEA they can integrate existing repositories and develop business transformation trajectories.

To enable you to effectively map your treatments under the General Data Protection Regulation (GDPR), Obeo offers a solution based on Obeo SmartEA.

Key selling point(s): Open Source technologies, centralized and customizable baseline

Key market(s): Enterprise Information Systems, Enterprise Architecture, Enterprise Mapping, Business Mapping, GDPR

Main customer(s): EDF, ERDF, MMA, Macif, Loterie Belge

Systematic R&D project(s): ADN4SE

Competitiveness cluster(s) co-labeling: Minalogic

Product Website: www.obeosmartea.com

OBEO
2, route de la Noue - BP 76
91193 GIF-SUR-YVETTE

www.obeo.fr

Contact: Mr Etienne Juliot
etienne.juliot@obeo.fr
Annual revenue: 3.06 M€
Head count: 46 employees
OpenPaaS: Open social network to reinvent the collaboration

OpenPaaS is a reliable social platform in the cloud, built to encourage collaboration and teamwork inside an easy and great user experience.

OpenPaaS aims to re-conciliate our new communication trends and integrates all the tools each of us needs to build a great enterprise social network. Discuss with your colleagues and partners using message system, instant messaging, video-conference and so more! Invite your clients, find the experts you need, collaborate with everyone and maintain control of your own data.

Build and organize communities to work together and contextualize your collaborations. Search for informations of many kind from many sources and be focus on what is important to you.

Key selling point(s): Open API, extremely flexible, PaaS framework, Elastic deployments, cloud, automatic reactions

Key market(s): Enterprise Information Systems, Digital Cities

Main customer(s): GAINDE 2000, L’Humanité

Systematic R&D project(s): OCCIWARE

Product Website: www.open-paas.org

LINAGORA
100, Terrasse Boieldieu
92042 PARIS - LA DÉFENSE

www.linagora.com
Contact: communication@linagora.com
Annual revenue: 11 M€
Head count: 200 employees
ProActive Cloud Automation

A single portal to deploy all your cloud services

Cloud Automation is the perfect tool to automate the deployment and management of complex multi-VMs applications:

- Manage all your Clouds (Private, Public, Hybrid, multi-suppliers) from a single dashboard portal; Fully compatible with Docker.
- A complete workflow catalog to deploy multi-level solutions (IaaS, PaaS, SaaS).

We provide complete services: licensing, support, subscription for usage in production, Consulting & Training, Integration & Development.

Key selling point(s): A single dashboard, Docker compatible, supports all clouds

Key market(s): Enterprise Information Systems, Factory of the Future, Transportation, Banking, Insurance

Main customer(s): CEA, L’Oréal, Home Office, Microcred, Légal & Général, Médiamétrie, Total, CNES

Systematic R&D project(s): OCCIWARE

Product Website: www.activeeon.com/cloud-automation/

ACTIVEEON
2000, route des Lutioles
Les Algorithmes - Pythagore B
6560 SOPHIA ANTIPOLIS

www.activeeon.com

Contact: Mr Paul Baque
paul.baque@activeeon.com
Annual revenue: 1.5 M€
Head count: 25 employees
ProActive Workflows & Scheduling
Translate business needs in IT workflows, accelerate execution Time and reduce Infrastructure Costs

ProActive Workflows & Scheduling is a workload scheduler distributing applications on grids and clouds to simplify and accelerate their execution. Its workflow orchestrator and resource manager supports secured data transfer and license cost optimization.

ProActive Workflows & Scheduling allows companies to easily execute all their jobs and business applications, monitor activity and quickly access job results. It can scale up and down according to its actual workload, and ensures the optimal match between availability and cost.

Main features:
- Build workflows to ease parallelization and maintenance
- Workflow templates catalog
- Dataspaces to ease data sharing in every situation
- Resource aggregation with clusters, desktops, VMs and clouds
- Monitoring from infrastructure resources to real applications metrics

Workflows & Scheduling: Translate business processes into expressive IT workflows
- Fault tolerance with failure detection and automatic recovery
- Web interfaces to ease deployment
- Powerful Java SDK and REST API for integration

Applications: engineering, space, energy, biotech, health, media, IoT, Big Data, finance, insurance.

Key selling point(s): The product is multi-platform, multi-cloud and multi-language with advanced usage policies for business users.

Key market(s): Enterprise Information Systems, Energy, Factory of the Future, Healthcare, Telecommunications, Transportation, Banking, Finance

Main customer(s): Axispoint, CEA, CNES, Home Office, INRA, Joy Global, L’Oréal, Legal & General, Médiamétrie, Sea Engineering,

Systematic R&D project(s): COMPATIBLE ONE

Product Website: www.activeeon.com/workflows-scheduling

ACTIVEEON
2000, route des Lucioles
Les Algorithmes - Pythagore B
06560 VALBONNE

www.activeeon.com

Contact: Mr Paul Baque
paul.baque@activeeon.com

Annual revenue: 1.5 M€
Head count: 25 employees
Secure embedded cryptographic libraries

Cycle-accurate optimized cryptographic algorithms, on various hardware platforms

CryptoExperts develops and delivers cycle-accurate optimized cryptographic libraries.

CryptoExperts’ software can be declined on a variety of hardware platforms (smart cards, USB tokens, HSMs, Terminals, Smart Phones) and typically supports the following functions: RSA, RSA on-board key generation, ECC (Elliptic Curve Cryptography), Diffie-Hellman key exchange, (EC)DSA (Digital Signature Algorithm), AES, DES, 3DES, hash functions (SHA-1/2/3), MAC (Message Authentication Codes), 2G/3G/LTE authentication algorithms, DRNG (Deterministic Random Number Generator).

CryptoExperts’ cryptographic APIs are guaranteed to embed the most-efficient countermeasures against physical attacks and successfully pass in-lab security evaluations (FIPS 140-2, CC EAL, CAST, EMVco, etc.). We implement customized countermeasures that efficiently thwart all kinds of power and electromagnetic attacks, fault-injection attacks, cache and timing attacks.

Key selling point(s): Advanced algorithmic, custom countermeasures against physical attacks

Key market(s): Enterprise Information systems, Smartcards and embedded systems

Main customer(s): Smartcard industry

Systematic R&D project(s): ECLIPSES

Competitiveness cluster(s) co-labeling: SCS

CRYPTOEXPERTS
41, boulevard des Capucines
75002 PARIS

www.cryptoexperts.com

Contact: Mr Matthieu Rivain
matthieu.rivain@cryptoexperts.com
SlapOS is an open source grid operating system for cloud computing and orchestration. It can be used to automate the deployment and management of large application clusters and provides a resilient, scalable network with fine-grained security and user access.

By incorporating business process modelling into its architecture, SlapOS can be used to host decentralized IAAS (Infrastructure), PAAS (Platform) and SAAS (Software) solutions at a fraction of the cost of comparable software. This is due to its automated POSIX based architecture which allows to share a single machine’s RAM, CPU and libraries across users and applications resulting in higher utilization per server and lower maintenance cost.

SlapOS is constructed as a grid across multiple continents mitigating the risk of data loss due to electricity failure or connectivity loss. Through the use of re6st, an IPv6-based low latency overlay network, SlapOS-run clusters are constantly optimized for data integrity and access speed making it an ideal solution for running both data-intensive and sensitive applications.

Key selling point(s): Cost-efficient, automated and secure Cloud Deployment, Cloud Orchestration and Cloud Management

Key market(s): Enterprise Information systems

Main customer(s): Aerospace, Banking, Manufacturing, NGO, Tolling

Systematic R&D project(s): COMPATIBLE ONE

Product Website: slapos.nexedi.com

NEXEDI SA
147, rue du Ballon
59110 LA MADELEINE

www.nexedi.com

Contact: Mr Sven Franck
sven.franck@nexedi.com

Annual revenue: 2 M€

Head count: 30 employees
Squash
Open source software for test repository management and test automation

Squash is an open source software suite dedicated to industrializing software testing.

Squash TM is a testing tool (requirements, test cases, runs, comprehensive search engines, monitoring and reporting, etc.) with several key features, among which:

- Intuitive and efficient ergonomics
- Innovative features (inter-project and multi-projects, wizards)
- Easy deployment (full web technology)
- Designed for collaborative work (shared work/performance/security)
- Real-time customized charts and dashboards
- Close communication with bugtrackers and requirement managers (Jira, Redmine)
- API interface

Squash TA is a test automation tool compatible with Selenium and SoapUI. It also provides functionalities aiming at industrializing the execution of tests in continuous integration or continuous qualification contexts.

Key selling point(s): Optimization of continuous acceptance/qualification

Key market(s): Enterprise Information Systems

Main customer(s): Engie, Air France, SNCF, EDF-Edelia, Euronext, Covea, BNP, Ministries (Education Nationale, Ecologie, Santé)

Systematic R&D project(s): SQUASH

HENIX
1, rue François Ory
92120 MONTROUGE

www.henix.com

Contact: Mr Philippe Vaillergues
pvaillergues@henix.fr
Annual revenue: 16 M€
Head count: 200 employees
TZScan
The Tezos Block Explorer

TZScan (http://tzscan.io/) is the most complete block explorer for the Tezos blockchain. It is built on OCamlPro’s experience gathered during the development of the Tezos prototype.

TZScan provides a REST API that can be used by applications (wallets, etc.) that want to interact with the Tezos ledger. TZScan is coupled with Liquidity online editor (http://www.liquidity-lang.org/), Tezos high-level smart contract language.

Key selling point(s): Scalability, Reactive Interface, REST API

Key market(s): Enterprise Information Systems, Public and Private Blockchains, Smart Contracts

Main customer(s): Tezos Foundation, general public

Systematic R&D project(s): UCF, MONEYTRACK
Use it Cloud
Cloud Management Platform

Use it Cloud is a Cloud Management platform that facilitates and accelerates the deployment process in the Cloud.

Use it Cloud platform supports CIOs in the management of complex Cloud infrastructures. It responds to a need for simplification by integrating different competing technologies from private, public and hybrid clouds.

A template and tool library lets you create custom deployment templates and reuse them to easily deploy your applications.

Use it Cloud offers an abstraction layer for each of the clouds to which it interfaces. All operations are managed from a unified interface.

Beyond deployment, Use it Cloud supports you in managing the life cycle of your applications with rich functionalities such as catalog management (custom marketplace), load balancing, supervision.

Key selling point(s): Orchestration, Disaster Recovery and Backup, Cloud Management Platform, Hybrid Cloud, supervision

Key market(s): Enterprise Information Systems, Telecommunications

Systematic R&D project(s): COMPATIBLE ONE

Product Website: www.useitcloud.com

PROLOGUE
101, avenue Laurent Cély
92230 GENNEVILLIERS

www.prologue.fr

Contact: Mr Manuel Haas
mhaas@prologue.fr
Annual revenue: 75 M€
Head count: 340 employees
Wendelin
Hyperconvergent Big Data & Machine Learning platform for data analysis and business application development

Wendelin is an open source and free Big Data & Machine Learning platform written in Python. It covers the full data life cycle from ingestion to storage, analysis and visualization and can be used to develop both scientific and business web applications (hyperconvergence). Scenarios for Wendelin include large data sets (monitoring, internet of things/iot) that require both sophisticated analysis as well as access to results by users or potential customers.

The Wendelin.core component allows to computations beyond the memory available in a cluster, while Wendelin itself integrates popular libraries such as Scikit-Learn, NumPy, Jupyter or Pandas and avoids having to recompile data being solely Python based.

Data can easily be ingested (Wendelin interfaces with Fluentd/embulk) and is stored in a NEO distributed storage. SlapOS is used for cluster deployment and orchestration while re6st creates a scaleable, resilient IPv6-based overlay network. ERP5 is used for interconnecting all components and providing web application and business process related features.

Key selling point(s): Python-based, hyperconvergent Big Data & Machine Learning stack for scientific and business applications

Key market(s): Enterprise Information systems

Main customer(s): Aerospace, Banking, Manufacturing, NGO, Tolling

Systematic R&D project(s): WENDELIN

NEXEDI SA
147, rue du Ballon
59110 LA MADELEINE

www.nexedi.com

Contact: Mr Sven Franck
sven.franck@nexedi.com
Annual revenue: 2 M€
Head count: 30 employees

Screenshot software tool-belt

Wendelin Exanalytics Core

Product Website: www.wendelin.io
XWiki Cloud & App Store
Cloud service for XWiki and App Store with extensions

Cloud service allowing to subscribe to XWiki instances:
- one-click creation of an XWiki instance
- Self-managed instances

App store allowing to install extensions on any XWiki instance:
- Dependencies management between extensions
- Extension repository available online with more than 600 extensions
- Extension manager embedded in XWiki allowing to easily install extensions.

Key selling point(s): Open-source and extremely flexible
Key market(s): Enterprise Information systems
Main customer(s): Small and Medium Enterprises
Systematic R&D project(s): COMPATIBLE ONE

XWiki
35, rue Beaubourg
75003 PARIS

www.xwiki.com

Contact: Mr Ludovic Dubost
ludovic@xwiki.com
Annual revenue: 1.5 M€
Head count: 40 employees
With XWiki Pro, you can create new wikis on-demand within your organization to help you organize and share information.

You can create different types of Wikis:
- Knowledge-based wikis with structured data using AppWithinMinutes.
- Collaboration workspace wikis including 10 collaborative applications.
- Standard Wikis with advanced page editing and macros.

Knowledge Sharing is the foundation of operational excellence.

XWiki enhances collaboration performance by centralizing and organizing your professional content in one place. The benefits are that no information is lost, the history of a project is capitalized and people work better together. Online collaboration within a page is so easy and reliable that mail becomes only a reminder tool.

Key selling point(s): Workspaces, AppWithinMinute, Social network functionalities

Key market(s): Enterprise Information systems

Main customer(s): Amazon, SFR, SCOR, DCNS, SNCF, DINSIC

Systematic R&D project(s): WIKI 3.0

Product Website: www.xwiki.com
Yellow
Natural team collaboration on a digital whiteboards

An innovative digital solution that mimics the use of sticky notes and whiteboards to address conventional brainstorming activities/ideation/visual project management.

Multiple devices are supported from smartphones, tablet PCs, laptops, to touch’s tables, digital flipcharts, whiteboards to enhance human interactions.

Yellow supports any kind of meeting from a simple brainstorming to creative session or Lean management meeting, business canvas, Obeya…

Key selling point(s): Natural interactions, touch screens, digital pens, mice, keyboards, voice, multi-device

Key market(s): Enterprise Information Systems, Security

Main customer(s): Renault, Air Liquide, BearingPoint, Covéa, Deloitte

Systematic R&D project(s): VOIE

Product Website: www.getyellow.io

SENSORIT
2, rue Ernest Lefèvre
75020 PARIS

www.sensorit.fr

Contact: Mr Dick Lantim
dicklant@sensorit.fr
Annual revenue: 650 k€
Head count: 10 employees
Horizontal Software is a SaaS editor which offers disruptive Human Resource Management Systems (HRMS). It was founded in 2010 and is leveraging advanced technologies to address the challenges of HRMS. The company provides its customers with a one-stop shop platform and covers the HR needs such as talents acquisition and management, workforce management and optimization. It has been identified by Forrester as one of the international HRMS vendors (Vendor Landscape: SaaS Human Resource Management Systems, 2017).

- YooTalent a freemium/premium solution which reinvents the way Millennials use their HCMS: continuous feedback, disruptive talent maps, AI-powered chatbots, etc.
- KeenTalents a talent acquisition and management suite allowing to manage the hiring process and dealing with employee recording, on-boarding, learning, etc.
- E-Optim a constraints based solver to generate optimal schedules, taking into account legal, companies and employees’ constraints
- E-Connection & Agiletime allow to manage time and attendance and handles analytical tracking

Key selling point(s): Optimization solvers in cloud mode, HCM systems based on AI and gamification

Key market(s): Enterprise Information Systems, Health, services, industries, infrastructures, retail, restauration, hotels, leisure, public authorities and public institution

Main customer(s): Burger King, Egis, Chronopost, Leroy Merlin, Nocibé®, ARS PACA, EPIDE, Umanis, UNEP, Rémy Cointreau, AP-HM

Systematic R&D project(s): PAJERO, TIMCO

Product Website: www.yootalent.fr www.keentalents.com/
The following products also address the Enterprise Information Systems market:

- **6WIND TURBO IPSEC** - Page 130
- **6WIND TURBO ROUTER** - Page 131
- **6WIND VIRTUAL ACCELERATOR** - Page 132
- **6WINDGATE** - Page 133
- **CORPORATE ID** - Page 71
- **CUSTOMISED WI-FI PRODUCTS DEDICATED TO FACTORY 4.0 AND IOT MARKETS** - Page 72
- **DATAMETRIE GLOBAL EXPERIENCE** - Page 189
- **DIGITAL SINGLE WINDOW** - Page 12
- **ENERGY MANAGEMENT SOLUTIONS** - Page 26
- **ESIRIUS - EAPPOINTMENT** - Page 13
- **ETICKETS** - Page 103
- **G2SMART SOLUTION** - Page 27
- **MOBILE-IT QUANTUM** - Page 113
- **MONTIMAGE MONITORING TOOL (MMT)** - Page 150
- **PRAXEDO MOBILE** - Page 154
- **PROXEM SOFTWARE** - Page 200
- **RUM BI** - Page 203
- **SIDETRADE SALES & MARKETING AI PLATFORM** - Page 206
- **STREAMDISPLAY** - Page 16
- **TECHVIZ I3 INTERACTIVE IMAGE INTEGRATION** - Page 122
- **TECHVIZ VR** - Page 209
- **TRUSTYBOX** - Page 123
- **UBILOOP** - Page 17
- **WALLIX ADMINBASTION (WAB)** - Page 124
- **WEBDYNGRID** - Page 33
FACTORY OF THE FUTURE
CORPORATE ID
PKI made simple

Organizations are faced with a new equation that requires an ultra-flexible information system while meeting an increasingly sophisticated level of cyber criminality that threatens the IT infrastructures:
- Loss of confidential data following theft of mobiles or smartphones
- Identity theft and associated fraud
- Illegal downloads via Wifi or insecure networks
- Misuse of confidential information sent by insecure email
- Use of invalid password or denied user access right

IT departments and security managers must therefore propose security solutions within their companies to effectively combat the new risks of intrusion and cyber criminality, in order to protect their confidential information.

Corporate ID solution is designed to create, issue and manage the digital identities of users and devices within a trusted infrastructure.

Key selling point(s): PKI, authentication, digital identity, security, encryption

Key market(s): Factory of the Future, Energy, Enterprise Information Systems, Telecommunications

Main customer(s): Alstom, Safran, TIGF, Areva, Orange

Systematic R&D project(s): ISE

Product Website: www.idnomic.com/corporate-id/?lang=en

IDNOMIC
175, rue Jean-Jacques Rousseau
92130 ISSY-LES-MOULINEAUX

www.idnomic.com

Contact: Mrs Caroline Drobinski
caroline.drobinski@idnomic.com
Annual revenue: 16 M€
Head count: 100 employees
Customised Wi-Fi IPs dedicated to Factory 4.0 and IoT markets
Client and Access Point Wi-Fi IPs

The customized IEEE802.11a/b/g/n/ac/ax/ah WiFi access point solves different issues such as Quality of Service (QoS), radio resource management, low latency, coverage, in dense and industrial environment.

There are different options for the product: VHDL code with validation test, and the hardware and software platform. The technology is usable as-is for validating new applications, such as video transmission, VoIP, etc. The platform can be industrialized, and demos are available on-demand. The MAC PHY WiFi QoS stack is available for designing an SoC.

The MAC PHY IPs are RTL codes and do not use IPs coming from Altera or Xilinx FPGA libraries. Testbenchs are also available.

Additive IPs including radar detection, radio resource management, RF daughter card for sub-GHz band, channel sounding, channel interference mitigation, outdoor Wi-Fi MAC PHY are available on request.

Low Wi-Fi energy, based on IEEE802.11ah std, is also available for secured industrial IoT applications.

Key selling point(s): IoT, Interferences management, QoS for multimedia services, mobile WiFi, off-loading, 5G/Wi-Fi convergence


Main customer(s): Orange, Parrot, TUT, TDF, Thales, Alcatel, Bouygues, Mobilis, Vodacom

Systematic R&D project(s): CO-DRIVE, ECONHOME V2, QOS WI-FI

Competitiveness cluster(s) co-labeling: Cap Digital, i-Trans, Images et Reseaux, Minalogic, Mov’eo

COMSIS
3, rue Broussais
75014 PARIS

www.comsis.fr

Contact: Mr Philippe Leclair
p.leclair@comsis.fr
Annual revenue: 350 k€
Head count: 6 employees
Magillem tool platform
Electronic system design platform: specification, virtual prototyping and implementation

The Magillem platform is composed of several dedicated modules, and gives customers in the electronics industry tools and services that drastically reduce the global cost of complex systems design.

- Magillem IP-XACT Packager: Manage your IP portfolio METADATA in a fully automated and scriptable manner (IEEE 1685 compatible)
- Magillem Platform Assembly: Assemble, configure and manage a systems hierarchy within a graphical front end
- Magillem Register View: Work collaboratively on the register view of IP-XACT systems and IPs
- Magillem Checkers Suite: Validate the correctness, completeness, and compliance of your IP-XACT database
- Magillem Generator Studio: Get control over the database access API. Code assist, state of the art debugger, native and SOAP support
- Magillem Sequence Editor: User-friendly yet powerful tool for defining IP drivers, test benches, and reports, based on their IP-XACT descriptions.

Key selling point(s): IP re-use, virtual platform, design flow control, optimization and exploration, better interoperability

Key market(s): Factory of the Future

Main customer(s): Intel, NXP, Onera, Qualcomm, Samsung, ST Microelectronics...

Systematic R&D project(s): ACOSE, BACCARAT

Competitiveness cluster(s) co-labeling: Minalogic

MAGILLEM
4, rue de la Pierre Levée
75011 PARIS

www.magillem.com

Contact: Mr Emmanuel Vaumorin
vaumorin@magillem.com
Annual revenue: 3.2 M€
Head count: 35 employees
NCSIMUL 4CAM generates error-free and optimized CNC programs without an external post-processor. Reprogramming in a few clicks for all types of CNC machines becomes automated, simple and flexible, significantly increasing the production rates of the CNC Machines of your Shopfloor adding flexibility in your manufacturing process and increasing production capacity per machine.

Fast Part reprocess : From different CAD/CAM input data (3D, APT/GLdata tool paths) or existing CNC programs (G-code), NCSIMUL 4CAM has the unique capability to automatically generate error-free and optimized CNC programs. It significantly reduces reprogramming time from prototype to mass production, or when reusing old G-code based programs for new machines. This is also eliminating the usual costs of post-processor development, setup, prove outs and associated maintenance.

Key selling point(s): Shopfloor flexibility, easy production dispatch, fast part reprocessing, adaptive G-Code

Key market(s): Factory of the Future, Energy, Transportation, Aerospace and defense, medical device

Main customer(s): Airbus Group, Dassault Aviation, Messier Bugatti Dowty, Snecma

Systematic R&D project(s): ANGEL

Competitiveness cluster(s) co-labeling: ASTech, ViaMéca

Product Website: www.ncsimul.com/contenu.php?ID=696

SPRING TECHNOLOGIES
261, rue de Paris
93100 MONTREUIL

www.ncsimul.com

Contact: Mr Bernard Hautbergue
bhautbergue@ncsimul.com
Annual revenue: 10 M€
Head count: 100 employees
O Dyssee
Optimal Decision Support System for Engineering and Expertise

O Dyssee, is an innovative and low-cost platform, allowing to build specific skill tools involving industrial data analysis.
No programming, No scripting, just datamining of already available data.
O Dyssee aims at introducing analytics into industrial manufacturing and process optimization. It is positioned midway between optimization and scripting packages and it may be used for automated data mining, model reduction techniques or reverse engineering.

Available in modules, it allows to adapt easily to your needs and implementation of specific industrial processes:
- Analytics, automatic learning, reduced model generation
- Reduced Modeling for embarked applications
- Complexity analysis for system maintenance, reliability and optimization

Key selling point(s): Analytics, Big-Data, Process discovery and automation, early warning systems, anomalies
Key market(s): Factory of the Future, Energy, Healthcare, Transportation, Financial risk analysis, Management, Planning, Real time, Automation
Main customer(s): Toyota Motor Corporation, Airbus Safran Launchers
Systematic R&D project(s): ANGEL, CARAB, MECASIF
Competitiveness cluster(s) co-labeling: Aerospace Valley, ASTech, ViaMeca

Description of O Dyssee modules
- Automatic and intuitive process generation
- Mathematical tool library
- Optimization, reliability, robustness, complexity analysis
- Easy integration of in-house software
- Public and proprietary user libraries

Key selling point(s): Analytics, Big-Data, Process discovery and automation, early warning systems, anomalies
Key market(s): Factory of the Future, Energy, Healthcare, Transportation, Financial risk analysis, Management, Planning, Real time, Automation
Main customer(s): Toyota Motor Corporation, Airbus Safran Launchers
Systematic R&D project(s): ANGEL, CARAB, MECASIF
Competitiveness cluster(s) co-labeling: Aerospace Valley, ASTech, ViaMeca

Product Website: www.cadlm.com

CADLM
32, rue Victor Baloche
91320 WISSOUS

www.cadlm.com

Contact: Mr Kambiz Kayvantash kambiz.kayvantash@cadlm.com
Annual revenue: 0.6 M€
Head count: 6 employees
OpenPALM
Parallel code coupler for the execution of multi-physical and multi-scale simulations

OpenPALM is a massively-parallel dynamic code coupler. The tool is composed of two libraries released under the LGPL license:

1/ The PALM library developed by CERFACS since the end of the nineties, allowing one to easily generate complex algorithms around existing code, while enabling efficient data transfers between the components of the algorithms.

2/ The CWIPI library developed since 2009 by ONERA, which allows one to perform optimized data exchanges between massively-parallel computing codes, for which the meshings are partitioned.

The PrePALM graphical user interface gives you access to the features of these two libraries, so as to build very high-level scientific applications and produce sophisticated industrial studies.

Key selling point(s): Integration of IP communication mode for interfacing robust commercial code for the libraries

Key market(s): Factory of the Future

Main customer(s): Cesbio, EDF, IFPEN, INRA, LMFA, ONERA, Safran, Schapi

Systematic R&D project(s): COSMOS+

Competition cluster(s) co-labeling: Aerospace Valley, ASTech

CERFACS
42, avenue Coriolis
31057 TOULOUSE

www.cerfacs.fr

Contact: Mr Florent Duchaine
florent.duchaine@cerfacs.fr
Annual revenue: 100 k€
Head count: 100 employees
Sokaris Ingenierie has developed a 3D sizing optimization module that is designed to adapt the tolerancing methods to 3D modeling. The module optimizes the distribution of tolerances within chains of 3D dimensions.

This optimization module is integrated into the chain of development of Sokaris products and, during the sizing phase, allows one to attain high levels of mechanical, acoustic and vibrational performance, while seeking an optimal balance in terms of cast and weight, according to the essential requirements applicable to the products concerned.

Features of the module:
- Analysis of 3D tolerances
- Tools interfacing with Catia for the optimization of the configured digitizations
- Optimization of thicknesses in riveted, bolt-assembled or welded plate structures

Key selling point(s): Development of optimization tools configured for the Catia, Excel, Samcef and Abaqus interfaces

Key market(s): Factory of the Future, Transportation, Generic, Relief structures, topological optimization, Develop business tools, R & D, Additive manufacturing

Main customer(s): Alstom, Nief Plastique, Safran, Trelleborg, UTC, Vibracoustic, Zodiac

Systematic R&D project(s): QUICK GPS

Competitiveness cluster(s) co-labeling: ASTech

SOKARIS INGENIERIE
30 bis, rue du Vieil Abreuvoir
78100 SAINT-GERMAIN EN-LAYE

www.sokaris-ingenierie.fr

Contact: Mr. Jean-Pierre Gaudet
jp.gaudet@sokaris-ingenierie.fr

Annual revenue: 1.1 M€
Head count: 12 employees
FACTORY OF THE FUTURE

OPUS

Uncertainty processing and sensitivity analysis

Uncertainty processing is a methodology commonly used by manufacturers (extraction, nuclear, aerospace, etc.) and institutions to augment conventional data analysis and/or physical and statistical analysis systems.

The OPUS software package (free software) provides an ideal methodology for - among other things - regulatory justification of the satisfactory operation of complex systems, for the selection of predictive models, for robust engineering, for design and optimization with uncertainties, and for the understanding of processes, phenomena and models.

OPUS can be integrated with your IS, and augmented with modules where necessary.

Key selling point(s): Predictive models, robust engineering, assistance with the understanding of processes, phenomena and models

Key market(s): Factory of the Future, Digital simulation, prospective, predictive

Main customer(s): Airbus Group Innovations, CEA, Dassault Aviation, EDF R&D

Systematic R&D project(s): OPUS

Contact: Mr Alain Rakotonanahary
contact-it@softia.fr

Annual revenue: 0.8 M€
Head count: 10 employees

Product Website: www.opus-project.fr

SOFTIA INGENIERIE
9 ter, rue Carnot
94270 LE KREMLIN-BICÊTRE

www.opus-project.fr
PhimecaSoft
Solutions for robust engineering

PhimecaSoft is an uncertainty-handling software based on the OpenTURNS computation kernel. It can be linked to any third-party computation code and allows one to propagate, quantify and hierarchically classify uncertainties.

Based on stochastic analysis and uncertainty propagation methods, PhimecaSoft maximizes the reliability of a structure without deteriorating its cost of production and maintenance. PhimecaSoft incorporates a multi-platform graphical user interface, and adapts to all digital simulation software packages.

The software’s organization incorporates four phases for the processing of uncertainties:
- Physical modeling of the problem
- Probabilistic modeling of the input data
- Propagation of the uncertainty for sensitivity or reliability analysis
- Determination of the influence of the input data on the output result

Key selling point(s): Uncertainty engineering, propagation methods, response surfaces, reliability analysis

Key market(s): Factory of the Future

Main customer(s): CEA, CNIM, DCNS, EDF, Faurecia, ITER, Lafarge, Renault, Technip, Total, Turbomeca, Valeo

Systematic R&D project(s): CHORUS, SICODYN

Competitiveness cluster(s) co-labeling: Aerospace Valley, ASTech, Nucléaire Bourgogne

PHIMECA ENGINEERING
34, rue de Sarliève - Centre d'affaires du Zénith 63800 COURNON D'AUVERGNE

www.phimeca.com

Contact: Mr Thierry Yalamas
yalamas@phimeca.com
Annual revenue: 2 M€
Head count: 25 employees
qobeo is a new software directly coming from the developments of the ThosT research project.

qobeo is a CFD software dedicated to the numerical simulation and optimization of heating and cooling processes (furnace, quench...). It describes the process behaviour all along the time and its impact on the workpiece.

As a result, qobeo provides heating/cooling values (temperature, heat transfer coefficient...) for improving the process.

Basically, results are used for understanding the process thin mechanisms, optimizing the geometries and operating conditions.

qobeo is a must-use tool for analyzing the process on a virtual way but also for saving time, resources and money. It has been developed for simulating high dimensions installations loaded with high workpieces and save energy resources and decrease pollution (NOX).

Key selling point(s): Operation and scenario definition, complete phenomena simulation, continuous simulation provision

Key market(s): Factory of the Future

Main customer(s): Areva, A&D, Industeel, Snecma, Safran, Lisi, Faurecia

Systematic R&D project(s): REALISTIC

Competitiveness cluster(s) co-labeling: Nucléaire Bourgogne, Pegase

Product Website: www.scconsultants.com/en/software/heating-range.html

SCIENCES COMPUTERS CONSULTANTS
10, rue du Plateau des Glières
42000 SAINT-ETIENNE

www.scconsultants.com

Contact: Mr Laurent Ratte
lratte@scconsultants.com
Annual revenue: 500 k€
Head count: 10 employees
SAFE AND SECURE OPC
Secure and open-source implementation of the OPC-UA protocol

- EAL4+ security level (Common Criteria)
- High assurance (formal methods)
- Compliant with safety standards (IEC 61508 SIL2)
- Nano server profile (specific design for embedded systems)
- Open-source (sources available on https://gitlab.com/systerel/S2OPC)
- Security certification by ANSSI (French National Agency for Computer Security) planned in 2019

Related services:
- Integration on new system platforms (hardware/software), functional extensions and change management
- Safety and security documentation with support throughout the certification process
- Support and maintenance

Key selling point(s): Open source, safety standards (SIL2), security standards (common criteria EAL 4+), embedded, cybersecurity

Key market(s): Factory of the Future, Security, Transportation, Industry 4.0

Main customer(s): Schneider Electric, Alstom

Systematic R&D project(s): INGOPCS

Product Website: www.s2opc.com
The WidySWIR cameras use an infrared image sensor (2D) developed by NIT that operates in very-high-dynamic mode.

The sensor’s retina is composed of a network of InGaAs photodiodes operating in the 900 nm to 1700 nm band and hybridized on a silicon read circuit.

The dynamic of the available signal is better than 120 dB.

WidySWIR cameras are available in VGA 640 x 512 and QVGA 320 x 256 format and exist under three families; Compact and TEC (USB3.0, camlink), Smart (Analog PAL or NTSC, GiGE)

**Key selling point(s):** NIR-SWIR High-dynamics infrared imagery

**Key market(s):** Generic, Energy, Factory of the Future, Security, Telecommunications

**Main customer(s):** Alphanov, Quantaflow, Photonis, Thales, ...

**Systematic R&D project(s):** X-VISION

**NEW IMAGING TECHNOLOGIES**
1, impasse de la Noisette
91370 VERRIÈRES-LE-BUISSON

[www.new-imaging-technologies.com](http://www.new-imaging-technologies.com)

**Contact:** Mr Jean-Louis Lauront
jean-louis.lauront@new-imaging-technologies.com

**Annual revenue:** 2.1 M€

**Head count:** 20 employees
**X’SPIRE**
Real-time command and control software

X’SPIRe is a standard software suite catering to command-and-control, acquisition and test-facility data analysis needs. The suite is used for the production of testing equipment for facilities ranging from R&D centers to production lines.

X’SPIRe easily generates test sequences for validating the quality of industrial products, and facilitates the management of results.

Key selling point(s): Integration of the link between the tests and the Open Source digital simulation for mHIL tests

Key market(s): Factory of the Future, Generic

Main customer(s): Bosh, FAW, PSA, Zodiac Aerospace

Systematic R&D project(s): AGREGATION

Competitiveness cluster(s) co-labeling: Astech

**SDI**
8, rue Constantin Pecqueur
95150 TAVERNY

[www.sdi-tech.com](http://www.sdi-tech.com)

Contact: Mr Emmanuel Sohm
emmanuel.sohm@sdI-tech.com
Annual revenue: 2 M€
Head count: 15 employees
The following products also address the **Factory of the future** market:

- **ARTELYS CRYSTAL ENERGY PLANNER** - Page 25
- **CALLIOPE LTE PLATFORM** - Page 138
- **CARDANO SUITE** - Page 11
- **CUSTOMISED WI-FI PRODUCTS DEDICATED TO FACTORY 4.0 AND IOT MARKETS** - Page 72
- **ETICKETS** - Page 103
- **MONARCH LTE PLATFORM** - Page 149
- **MONTIMAGE MONITORING TOOL (MMT)** - Page 150
- **PROACTIVE CLOUD AUTOMATION** - Page 54
- **PROACTIVE WORKFLOWS & SCHEDULING** - Page 55
- **TECHVIZ VR** - Page 209
BlueGard® is an autonomy bracelet based on a geolocation system and a dedicated listening center, available 24/7. Its purpose is to aid safer outdoor walking for those with Alzheimer or other cognitive disorders. BlueGard® allows the wearer to walk freely in a predetermined safe zone but raises an automatic alarm should the wearer walk outside of this area. The call center operator then locates the wearer in the GPS coordinates and triggers an alert procedure to the family or the carers, and in case of emergency to the relevant rescue service.

Today, more than a thousand people are now using the BlueGard® autonomy bracelet. Available for both private individuals and health care establishments, this is a reliable and fast solution for protecting people affected by Alzheimer’s disease.

Key selling point(s): Geolocation / 24/7 remote tracking
Key market(s): Healthcare, Silver economy
Main customer(s): Private individuals and assisted living facilities
Systematic R&D project(s): ECLAIRAGE

BlueGard® Protect patients, Assist care providers, and Support family carers

BlueGard® 6, rue Blaise Pascal 78990 ELANCOURT
www.bluelinea.com

Contact: Mr Xavier Corbin xavier.corbin@bluelinea.com
Annual revenue: 6 M€
Head count: 80 employees
To date, Bluelinea monitors, day and night, already more than 25,000 seniors, mostly by its BlueHomeCare services developed around its dedicated listening center 24/7 and its home “call button”. A wide range of innovative services and solutions has been developed to take care of fragile and dependent people at their homes and to provide support to 800 healthcare institutions (hospitals, retirement homes, etc).

Bluelinea positions itself as a new type of operator, pioneering an original concept of “long-term care at home”, based on social and medical care. Social part is supported by our solutions and personal services at home. Medical one is assured by retirement homes. By creating this hybrid offer, Bluelinea wants to develop synergies between homes and institutions.

**Key selling point(s):** New concept of assisted home care

**Key market(s):** Healthcare, Silver economy

**Main customer(s):** Private individuals and assisted living facilities, La Croix Rouge

**Systematic R&D project(s):** ECLAIRAGE

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**BLUELINEA**

6, rue Blaise Pascal
78990 ELANCOURT

[www.bluelinea.com](http://www.bluelinea.com)

**Contact:** Mr Xavier Corbin

xavier.corbin@bluelinea.com

**Annual revenue:** 6 M€

**Head count:** 80 employees
Digital Dermoscope MelanOpTIC Plus
High-quality digital dermoscope

An adapter that turns an ordinary smart phone into a high-quality digital dermoscope at an affordable price for liberal-profession and hospital dermatologists.

The device is complemented by a range of associated services, implemented partly within a dedicated iOS and Android application and partly «in the cloud», providing hitherto-unavailable features such as whole-body mapping, assistance with melanoma diagnosis, together with sophisticated functions for characterization and tracking of skin lesions ever time.

Key selling point(s): Refinement of the optics of the adapter, lighting and its management, in light polarization

Key market(s): Healthcare, Cosmetics

Main customer(s): Dermatologists, general practitioners, hospital departments, medical/welfare establishments

Systematic R&D project(s): MELANOPTIC PLUS

Competitiveness cluster(s) co-labeling: Medicen

DEGETEL
46, avenue du Général Leclerc
92100 BOULOGNE-BILLANCOURT

www.degetel.com

Contact: Mr Hassen Hbaieb
hhbaieb@degetel.com
Annual revenue: 40 M€
Head count: 480 employees
EeleoCare is a system for remotely tracking output from communicating medical sensors (weight, blood pressure, blood sugar, oxygen saturation, activity, etc.). It is particularly useful for home tracking of chronic pathologies.

EeleoCare is composed of a nomadic hub, responsible for gathering sensor data and sending it to the secured servers of our customers. This hub can be either a dedicated hardware platform, or an Android Smartphone.

The system also offers a platform for remote management of the hardware devices, for maintenance purposes.

**Key selling point(s):** Open and multi-pathology system, ultra-low-energy-consuming wireless technologies

**Key market(s):** Healthcare, Telecommunications

**Main customer(s):** Homecare solution providers, software integrators

**Systematic R&D project(s):** PICADO

**Contact:** Mr Thierry Didi
thierry.didi@eeleo.com

**Annual revenue:** 400 k€
**Head count:** 6 employees
JeStiMule is an educational game designed to improve social skills of children and adolescents with autism or pervasive development disorder. It combines the fun of playing with learning. With a computer and a touch-operated gaming joystick, the player can learn while using virtual reality as in conventional video games. Based on a methodology adapted to the specific cognitive functioning of people with ASD (Autism Spectrum Disorder) and based on their interests, this serious game enables one to works on emotion recognition through three social cues (faces, gestures, contexts) and two phases of play (learning in 2D and experimentation in a 3D world).

Key selling point(s): Serious game, interactive, innovation, social interactions, emotions, 3D

Key market(s): Healthcare

Main customer(s): CRA, Families, IME, Orthophonists, Psychologists, SESSD, Therapists

Systematic R&D project(s): JESTIMULE

Competitiveness cluster(s) co-labeling: Cap Digital

JeStiMule: Serious game for educational and therapeutic usage

IDÉES-3COM
25, rue Corneille
Plaine Images - Bâtiment Le Jacquard
59100 ROUBAIX

www.jestimule.com

Contact: Mr Dominique Ringeval
contact@jestimule.com
Annual revenue: 680 k€ (2013)
Head count: 25 employees
DOSisoft offers innovative solutions in the field of Nuclear Medicine. Its PLANET® software suite is comprised of 3 modules:

PLANET® Onco: advanced contouring, quantification and image analysis software platform for Oncology. It supports centers in the implementation of different techniques like Diagnosis, RT, Chemotherapy, Adaptive therapy by providing complete structure segmentations and quantified therapy monitoring from multimodal images. Texture analysis feature can be used for diagnosis, follow-up and radiomics.

PLANET® Dose: fully integrated 3D personalized dosimetry software for Molecular Radiotherapy (90Y&177Lu). It provides pre & post dosimetry, automatic VOI propagation, residence time calculation and comparison between treatment planning & in vivo dose maps. Consolidation of multi-treatment stages is available.

PLANET® Neuro: solution designed to increase accuracy & confidence in the diagnosis of neurodegenerative diseases especially Alzheimer, dementia with Lewy bodies, Parkinson and Epilepsy. Normality database can be created with your own SPECT/PET data.

Key selling point(s): 3D personalized dosimetry, Individualization of treatment planning, Quantification, Follow-up, Vendor-neutral

Key market(s): Healthcare

Main customer(s): Nuclear Medicine and Radiotherapy departments

Systematic R&D project(s): MEDUSA

DOSISOFT
45/47, avenue Carnot
94230 CACHAN

www.dosisoft.com

Contact: Mr Marc Uszynski
uszynski@dosisoft.fr

Annual revenue: 1.1 M€
Head count: 34 employees
More than one in three citizen is affected by overweight or obesity, Linecoaching “Losing weight without dieting”, help people to change their eating behavior and to increase their physical activity every day, in order to reach and keep a balance weight in a healthy and sustainable approach, avoiding privation or health hazard.

Linecoaching was built in cooperation with medical experts, supplying their expertise and therapeutic protocols, which have been adapted for the internet, using new digital tools and artificial intelligence. With linecoaching, the user find, in everyday life interactive assistance and monitoring services comparable with those supplied by the specialists of his pathology.

The system identifies the difficulties faced by patients and generates relevant actions in return and in real time. The user benefits are a truly personalized and effective program.

79% of Linecoaching members maintain or continue to decreased their weight between 1 and 3 years after the end of the program.

Key selling point(s): Overweight, eating behavioral therapy, diet, sustainable health, digital health

Key market(s): Healthcare

Main customer(s): Lagardère/Doctissimo and Psychologies

Product Website: www.linecoaching.com
ThéraSomnia is a digital program to overcome chronic insomnia. The project innovation is the digital modeling and transposition of a therapy for insomnia (easier access, reduced costs).

ThéraSomnia was built in cooperation with medical experts, who bring their expertise and their protocols. The user finds in everyday life the interactive assistance and monitoring services comparable with those supplied by specialists of his pathology. The system identifies the difficulties faced by patients and generates relevant actions in return and in real time. The program is personalized and efficient. 80% of patients who have completed the ThéraSomnia program, recover the sleep of a good sleeper in less than 3 months. The results of clinical tests were presented at the Congrès du Sommeil in November 2016 and proved excellent efficiency of the program. Meta-Coaching, the company which conceived Therasomnia, is the leader of an innovative project based on an integrated approach of insomnia treatment (FUI16 - NexpertSanté project).

Key selling point(s): Insomnia, insomnia therapy, sleep, sustainable health, digital health, connected health

Key market(s): Healthcare

Main customer(s): Insurers / Healthcare Providers

Systematic R&D project(s): NEXPERTSANTE

Competitiveness cluster(s) co-labeling: Cap Digital, Medicen

Product Website: www.therasomnia.com
The following products also address the **Healthcare** market:

- **ALT-ERGO** - Page 167
- **CUSTOMISED WI-FI PRODUCTS DEDICATED TO FACTORY 4.0 AND IOT MARKETS** - Page 72
- **DATAMETRIE GLOBAL EXPERIENCE** - Page 189
- **E_TALEA: BRIDGING THE GAP AMONG DISCIPLINES** - Page 190
- **ESIRIUS - EAPPOINTMENT** - Page 13
- **EVALUATE** - Page 104
- **GNATCOVERAGE** - Page 193
- **LUCEOR WIMESH SOLUTION** - Page 14
- **NOTICO** - Page 15
- **ODYSSEE** - Page 75
- **PROACTIVE WORKFLOWS & SCHEDULING** - Page 55
- **PROTECT** - Page 115
- **PROVENCORE** - Page 116
- **PROVENCORE-M** - Page 117
- **RUM BI** - Page 203
- **SERVICE & CERTIFY** - Page 118
- **STREAMDISPLAY** - Page 16
- **TECHVIZ VR COLLABORATION** - Page 210
- **WAAVES** - Page 213
SECURITY
CASTEL is a ruggedized camera designed for difficult environments, that enhances the captured picture by eliminating vibrations (in the 3 axes) and atmospheric effects (heat, shadows, fog, etc.). CASTEL is able to capture video under extreme conditions, while providing unequaled recording and playback quality for the user.

CASTEL can be installed on any mobile or fixed platform - light vehicles, armored vehicles, boats, drones, and helicopters.

CASTEL features:
- High resolution
- Low latency
- Built-in image stabilization
- Integrated image enhancement for difficult conditions (night and fog)
- Internal recording on SD card
- Built-in image analysis (intrusion detection with a very low rate of false alarms)

Key selling point(s): Coupling of an HD sensor and real-time image processing to low-power-consuming and compact electronics

Key market(s): Security, Digital Cities, Transportation

Main customer(s): Crédit Lyonnais, Fujifilm, Ministry of Defense

Systematic R&D project(s): DEGIV

INPIXAL
80, avenue des Buttes de Coesmes
Immeuble Germanium
35700 RENNES

www.inpixal.com

Contact: Mr Pierre Romenteau
pierre.romenteau@inpixal.com
Annual revenue: 600 k€
Head count: 9 employees
**Dictao Cloudcard**

Strong authentication and electronic signature system for smart phones

Dictao Cloudcard is a strong authentication and electronic signature system for smart phones. It enables one to perform operations such as strong authentication, authorization of transactions, or electronic signature creation, without requiring the deployment of additional hardware devices. It provides the best balance between security, mobility and cost.

**Key selling points:** Two-factor strong authentication for mobile usage, exclusive control of the signature by the signatory

**Key market(s):** Security

**Main customer(s):** Airbus, BNP Paribas, BPCE, La Banque postale, LCL, Ministry of Defence, PSA, Société Générale, Total…

**Systematic R&D project(s):** MOBILAO

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**Dictao**

152, avenue de Malakoff
75116 PARIS

[www.dictao.com](http://www.dictao.com)

Contact: Mr Grégory Kuhlmey
gkuhlmey@dictao.com

Annual revenue: 13.7 M€
Head count: 93 employees
ETickets
Mobile solution for maintenance, operational running and reviewing of infrastructures

The operational excellence of your infrastructure

ETickets is a software suit based on a Web platform working in conjunction with a mobile application. It allows one to undertake reviews, do real-time logging, and manage infrastructure incidents, maintenance and repairs. Thanks to tablets and new technologies, this solution will allow field workers to enjoy substantial productivity improvements.

In addition to increased productivity, the ETickets system brings you better monitoring and any-time knowledge of the state of your infrastructures.

Key selling point(s): Infrastructure plan integrated into the system, to provide geolocated reviews

Key market(s): Security, Enterprise Information systems, Factory of the future, Real estate

Main customer(s): Le Bourget air show, Mercedes, PSA, VIPARIS

Systematic R&D project(s): AG@PE

Product Website: http://e-ticket.egylis.com

EGYLIS
46, rue René Clair
75018 PARIS

www.egylis.com

Contact: Mr Tanguy De Pommereau
tanguy.de-pommereau@egylis.com

Annual revenue: 1 M€
Head count: 15 employees
If you need certification labs capabilities, Laboryzr introduces you a ready-to-use complete embedded systems security evaluation laboratory with engineering training.

Analyzr is the most advanced post-silicon security evaluation platform on the market. The target to evaluate can be any embedded system, ranging from testing chips as FPGAs, ASICs and Micro-controllers to end-user devices such as IoTs, smartphones and smart-cards.

Virtualyzr is an electronic design automation (EDA) tool dedicated to pre-silicon security evaluation. The tool allows a security check point at all design levels. Moreover, the analysis is end-to-end: from the design source, IP or SoC, to the full security report generation.

Catalyzr is a software tool that provides a full security evaluation of the software layer of any embedded system. This includes operating system (OS) applications, security protocols and cryptographic libraries. The tool allows performing static and dynamic analysis with a direct feedback on the vulnerabilities at the code level.

Key selling point(s): Most advanced and unique technologies for Embedded Systems Protection

Key market(s): Security, Digital Cities, Healthcare, Telecommunications, Transportation, Banking & Payment, IoT & Mobility, Media & Entertainment, Government, Trusted Computing

Main customer(s): IC Design Houses & OEMs, Device Manufacturers, Certification Labs, Governments, Semiconductors

Systematic R&D project(s): RISQ

SECURE-IC
15, rue Claude Chappe
Bâtiment B - ZAC des Champs Blancs
35510 CESSION-SÉVIGNÉ

www.secure-ic.com

Contact: Mrs Sabrina Gomm
sabrina.gomm@secure-ic.com
Head count: 50 employees
Thanks to the SAIMSI project, funded by ANR, GEOL Knowledge answers the questions: WHO? WHAT? WHEN? WHERE? HOW? HOW MANY/ MUCH?

GEOL Knowledge transforms texts written in several languages (French, English, Arabic and Chinese) in language independent structured information according to an ontology describing the application.

To reach this goal, GEOL Knowledge uses a general purpose deep morphosyntactic analysis, a rule-based application-oriented semantic extraction and a final tool to infer additional knowledge from a global view of the document and its metadata.

An ontology and extraction rules are already available for personal information for security and GDPR: attributes of person, family relations, contact, emission of a message, relation with police and justice, death, violent act, meeting, travel, job, education. In addition to SAIMSI results, GEOLSemantics has added for GDPR compliance: personal data revealing racial or ethnic origin, political opinions, religious or philosophical beliefs, trade union, health, sexual orientation... Insults are also extracted.

Key selling point(s): Multilingual knowledge extraction, Language independent output in RDF, personal data, application for privacy

Key market(s): Security, Digital Cities, privacy protection, privacy by design, competitive intelligence, GDPR

Main customer(s): Ministry of interior and defence, large companies like Banks and insurances, all companies concerned by GDPR

Systematic R&D project(s): SAIMSI

GEOLSemantics
12, avenue Raspail
94250 GENTILLY

www.geolsemantics.com

Contact: Mr Christian Fluhr
christian.fluhr@geolsemantics.com

Head count: 8 employees
The ISAP software platform provides unified 3D situational awareness and real-time decision-support for physical and electronic security of critical sites.

ISAP interfaces with any preexisting security systems (access control, video surveillance, alarm systems, communications). It helps security supervisors manage security incidents via a single intuitive user interface and powerful features:

- Video-assisted doubt removal, investigation and intruder tracking
- Alarm and incident management, step-by-step guidance for security procedures
- Electronic logbook, customizable reporting
- Management and geolocation of security guards

Today, ISAP is one of the most powerful software suites for Physical Security Information Management (PSIM).

Key selling point(s): Unified 3D situational awareness, Data fusion from all security sensors, Complete traceability and reporting

Key market(s): Security, Defence

Main customer(s): Groupe ADP, Ministry of Defence, Paris Air Show, Eurosatory, CEA

Systematic R&D project(s): VIRTUALIS

EGIDIUM TECHNOLOGIES
86, rue de Paris
91400 ORSAY

www.egidium-technologies.com

Contact: Mr Laurent Denizot
laurent.denizot@egidium-technologies.com
Head count: 15 employees
JAGUAR is a video analysis system for the protection of sensitive sites. It is capable of processing video streams from a wide variety of cameras, providing real-time behavioral analysis of the events taking place in the image. Following this analysis, various actions are triggered, such as the actuation of dry contacts or the transmission of messages over an IP network. It can be integrated with various third-party systems, or can operate standalone.

Key applications: intrusion detection, abnormal temperature rise detection, hydrocarbon leakage detection, and unaccompaniment checking in a security booth.

Key selling point(s): Excellent ability to function in harsh conditions, and guarantees on false alarms, rapid implementation

Key market(s): Security, Energy, Transportation

Main customer(s): Airbus, Arcelor, Intexion, EDF, GDF, Geodis, Ministries, Safran, Schneider Electric, Thales, Total, Unesco

Systematic R&D project(s): MOBISIC, RECONSURE, SAFEAROUND, SMARTMESH

EVITECH
3, rue Buffon
91400 ORSAY

www.evitech.com

Contact: Mr Laurent Assouly
lassouly@evitech.com

Annual revenue: 700 k€
Head count: 15 employees
The SMARTMESH project concerned the protection of remote isolated or inhabited sensitive sites with low power facilities or batteries.

The Jaguar NUC family was developed to address the protection of such sites with low consumption units for processing 1, 2 or 4 cameras with as few as 5 W per camera. Embedded in fanless casing, this equipment withstands European outdoor temperatures (-20°C - 50°C).

It connects to one, two or four cameras for detecting outstanding events such as an intruder, a specific behavior, or a process leak, or a fire start, and close a dry contact (to wake up a communication device) and/or or send a small message to warn about the event.

Previous solutions could not undercome 25-50 W per camera, so the outcome of this product is a real progress by the combination of its computation power and its low power consumption.
The Krypto64 and Krypto128 make up a family of programmable, high-speed, low-power crypto PCI express (PCIe) boards for compute-intensive algorithm acceleration in data centers and security appliances.

**Target Applications**
Kalray’s Krypto boards optimize your system cost by offloading the main host processor for intensive computation tasks to be executed on high-speed data stream in the domains of:
- Security Appliances like VPN router or secure gateway (IPsec, OpenSSL)
- NFV Data centers (IPsec, OpenSSL)
- Storage servers (encryption, compression, erasure coding, authentication…)

**Key selling point(s):** Low power, programmable, offers optional co-processors for added security

**Key market(s):** Security, Telecommunications

**Main customer(s):** Data center

**Systematic R&D project(s):** MANYCORELABS

**Competitiveness cluster(s) co-labeling:** Minalogic

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**KALRAY**
445, rue Lavoisier
38330 MONTBONNOT

[www.kalray.eu](http://www.kalray.eu)

Contact: Mr Stephane Cordova
stephane.cordova@kalray.eu

Head count: 55 employees
LYNX

Video analytics solution for crowd supervision and control

The LYNX product is a software enabling the automatic analysis of images of a CCTV camera installed over a public area, for very precisely counting people (people crossing a line, people inside a zone), as well as detecting dangerous situations in crowds, such as panic movements, reverse walk, gatherings, loitering, reverse walk detection, smoke, massive falls...

Based on a very innovative design, this product differs completely from other video analytics solution in the way that it addresses crowds and can measure very precisely densities even in very crowdy situations.

Installed on the Austin Jazz Festival in 2014, it counted people entering the event with a precision of more than 99.5 % (checked over 40,000 people at an entry where RFID ticketing could ensure the ground truth).

Smoke detection functions have been certified by the CNPP for compliancy with EN-54-7.

Key selling point(s): Crowd images monitoring techniques

Key market(s): Security, Transportation, Urban, Public, Museums, ...

Main customer(s): SNCF, RATP, Thales

Systematic R&D project(s): FLUIDTRACKS

Product Website:

EVITECH
3, rue Buffon
91400 ORSAY

www.evitech.com

Contact: Mr Pierre Bernas
pbernas@evitech.com
Annual revenue: 1.8 M€
Head count: 20 employees
MASA SWORD
Complete, high-level, automated simulation for cost-efficient training, analysis and planning

MASA SWORD is a constructive aggregated simulation which immerses trainees in large-scale conflicts, terrorist threats or natural disasters scenarios. SWORD provides a broad and complete training solution that ultimately improves decision-making capabilities. SWORD simulates an extremely diverse range of situations in highly-realistic environments. Powered by its unique Artificial Intelligence technology, it allows trainees to interact with thousands of autonomous entities evolving in the environment. In the civil security field, SWORD is used for crisis management training, modeling and simulating both the situation and all the actors involved in such a scenario.

Key selling point(s): Advanced and versatile simulation, automated actors, extensive out-of-the-box content

Key market(s): Security, Defence

Main customer(s): Brazilian Army and French Army, CODAH, HCFDC

Systematic R&D project(s): DESCARTES, TARANIS

MASA GROUP
8, rue de la Michodière
75002 PARIS

www.masagroup.net

Contact: Mr Enrico Raue
enrico.raue@masagroup.net
Annual revenue: 3 M€
Head count: 47 employees
MINDSEC
Cybersecurity visualization & analysis tool

Designed from a new approach, Mindsec provides new tools based on artificial intelligence and machine learning to give meaning to logs and digital traces, detect anomalies, visualize, analyze, enrich, optimize and capitalize on processing of massive amounts of data:

- Abstract, simplify, learn from experts & industrialize the intelligence to provide new analyses & reasonings while investigating.

- Visualize: use a multi-level visualization to identify an anomaly and place it in its space and temporal context.

- Capitalize: open to any specific content and new analysis method, the platform is designed to gather knowledge and minimize costs of analyses over time.

- Optimize: designed to allow processing of large heterogeneous data sets.

Mindsec is the cyber security analyst tool and the answer to new challenges: heterogeneity, massive data and knowledge learning, threat diversification.

Key selling point(s): Cybersecurity, Incident detection and response, security visualization, Artificial intelligence

Key market(s): Security

Systematic R&D project(s): HuMa

INTRINSEC
Innovative by design

215, avenue Georges Clemenceau
92000 NANTERRE

www.intrinsec.com

Contact: Mrs Véronique Legrand
contact@intrinsec.com
Annual revenue: 6.6 M€
Head count: 65 employees
Mobile-IT Quantum
VPN solution dedicated for encryption by quantum key with continuous variables

Developed in partnership with the company SeQureNet and Telecom ParisTech, this product enables high-security and high-bandwidth telecommunications over long distances, thanks to a key-generation protocol that allows interfacing with a quantum key distribution process (CVQKD).

The principal aim of the product is to cater to the big demand for security in network telecommunications infrastructures for government usage (armed forces, etc.) or sensitive industrial businesses (banks, insurance, datacentres, etc.) where the criticality and vulnerability of data growth with skills and dangerousness of cybercriminals and for which the theoretical inviolability of public networks, and even dedicated lines, is not enough. The product was developed thanks to the expertise of the project partners in the fields of VPN-based network systems, security systems, cryptography systems, and quantum information technology.

Key selling point(s): Fast encryption and high-security usage of CVQKD under true-to-life and long-distance conditions

Key market(s): Security, Enterprise Information Systems, Telecommunications

Main customer(s): Secured big data companies

Systematic R&D project(s): QVPN
**MyLiFi**

Brightly Reinventing the way we connect

**What is LiFi Technology?**

LiFi technology for “Light Fidelity” is a new method to connect wirelessly mobile devices and other connected devices using LED lights. Oledcomm used a Li-Fi-enabled light bulb to transmit data at speed as fast as 23 megabit per second (Mbps). MyLiFi® is a high quality LED lighting, with dimming and modification of temperature color (from warm to neutral to cold atmosphere). Access, through MyLiFi® APP, secured by a personal password, to all of your MyLiFi® feature. Manage your group of light, users and access control using our desktop and mobile application.

MyLiFi® is a desk lamp allowing you to get connected to internet by the power of Light! It has received 2 CES innovation awards under the categories of Smart Cities and Tech for a better world.

MyLiFi is Offering you or your business a:
- More stable connection
- More secured
- Green Connection
- Energy saving solution

MyLiFi® Pro integrates the WISe-KeyIoT framework, a comprehensive trusted end-to-end cybersecurity platform for IoT developed by WISeKey.

**Key selling point(s):** A LiFi, Hight Tech Designer lamp

**Key market(s):** Security, Healthcare, Offices, Home and Schools.

**Main customer(s):** Air France, E.LECLERC, RATP, SNCF

**Systematic R&D project(s):** Wilson

**Product Website:** [www.oledcomm.com/solution/mylifi-pro](http://www.oledcomm.com/solution/mylifi-pro)

**Contact:** Mrs Ingrid Canal

[ingrid.canal@oledcomm.com](mailto:ingrid.canal@oledcomm.com)

**Annual revenue:** 250 M€

**Head count:** 20 employees
Protect
Securyzr & Smart Units

Securyzr:
The ultimate combination of Secure-IC core technologies and expertise results in the Securyzr. Secure-IC Securyzr provides a complete range of security features while addressing all the state-of-the-art threats against embedded systems. Securyzr is customized according to each market’s and client’s specific requirements.

Smart Units:
Secure-IC Smart Units are handy modules providing a simple interface to complex technologies. Building upon our Key Technologies, we designed compact and efficient modules embedding the necessary software and hardware enforcing a strong security feature (Data protection, Boot protection, Key protection…).
Smart Units provide flexible, ready-to-use, high value security features for embedded systems.

Key selling point(s): Extremly flexible; Most advanced technologies for Embedded Systems

Key market(s): Security, Digital Cities, Healthcare, Telecommunications, Transportation, Banking & Payment, IoT & Mobility, Media & Entertainment, Government, Trusted Computing

Main customer(s): IC Design Houses & OEMs, Device Manufacturers, Certification Labs, Governments, Semiconductors

Systematic R&D project(s): RISQ

SECURE-IC
15, rue Claude Chappe
Bâtiment B - ZAC des Champs Blancs
35510 CESSION-SÉVIGNÉ

www.secure-ic.com

Contact: Mrs Sabrina Gomm
sabrina.gomm@secure-ic.com
Head count: 50 employees
ProvenCore
Highly secure and certifiable operating system to protect connected devices from remote cyber-attacks

As devices for the IoT are connected to the outside world, they become the target of large-scale remote cyber-attacks. Today’s connected cars, planes, trains, smart grids, health devices, smart cities, smart homes and many more are at risk. The objective of protecting those IoT devices against attacks, at a reasonable level and industrial costs, cannot be achieved without a highly secure OS microkernel that has been formally proven and certified for security. Prove & Run is the sole company providing the solution.

ProvenCore has been designed with security in mind, using Prove & Run’s patented software development toolchain that relies on formal methods and is specifically forged to deal with the security properties of complex software components such as OS kernels and hypervisors. It has been formally proven for security (down to generated code) to get as close as possible to “zero bug”. ProvenCore can thus resist the most sophisticated hackers. ProvenCore is currently undergoing a Common Criteria security certification.

ProvenCore targets ARM Cortex-A processors.

Key selling point(s): Highly secure execution environment, formally proven security, certifiable at the highest level

Key market(s): Security, Energy, Healthcare, Telecommunications, Transportation, Industrie 4.0, Smart Cities

Main customer(s): Automotive, Aerospace, Energy, Industry 4.0

Systematic R&D project(s): CEEC

Product Website: http://provenrun.com/products/provencore/

PROVE & RUN
77, avenue Niel
75017 PARIS

http://provenrun.com

Contact: sales@provenrun.com
Head count: 35 employees
ProvenCore-M
Highly secure and certifiable RTOS to protect connected devices from remote cyber-attacks

As devices for the IoT are connected to the outside world, they become the target of large-scale remote cyber-attacks. Today’s connected cars, planes, trains, smart grids, health devices, smart cities, smart homes and many more are at risk. The objective of protecting those IoT devices against attacks, at a reasonable level and industrial costs, cannot be achieved without a highly secure RTOS that has been formally proven and certified for security. Prove & Run is the sole company providing the solution.

ProvenCore-M has been designed with security in mind, using Prove & Run’s patented software development toolchain that relies on formal methods and is specifically forged to deal with the security properties of complex software components such as OS kernels and hypervisors. It has been formally proven for security (down to generated code) to get as close as possible to “zero bug”. ProvenCore-M can thus resist the most sophisticated hackers.

ProvenCore-M targets ARM Cortex-M microcontrollers. For ARM Cortex-A microprocessors, please inquire about our ProvenCore product.

Key selling point(s): Highly secure execution environment, formally proven security, certifiable at the highest level

Key market(s): Security, Energy, Healthcare, Telecommunications, Transportation, Industrie 4.0, Smart Cities

Main customer(s): Automotive, Aerospace, Energy, Industry 4.0

Systematic R&D project(s): CEEC

Product Website: http://provenrun.com/products/provencore-m/

PROVE & RUN
77, avenue Niel
75017 PARIS

http://provenrun.com

Contact: sales@provenrun.com
Head count: 35 employees
Service & Certify

Security Consulting
Our experts are keen on making others benefit from their knowledge. Take advantage of their knowledge through various forms of consulting, at any stage of your design process.

To accelerate integration, we make all of our clients benefit from our expertise in the deployment of our technologies.

Thanks to our home-made Evaluation tools, Secure-IC can provide on-chip characterization of the level of robustness against attacks of our products after integration in clients’ designs.

Support to certification: Secure-IC supports its clients during the certification process by providing help to answer laboratories’ questions and providing the evaluation laboratories with all the required details on its technologies.

Because threats are constantly evolving, Secure-IC keeps long-term relations with all its clients to maintain the highest level of threat protection and awareness.

Key selling point(s): Extremely flexible

Key market(s): Security, Digital Cities, Healthcare, Telecommunications, Transportation, Banking&Payment, IoT&Mobility, Media&Entertainment, Government, Trusted Computing

Main customer(s): IC Design Houses & OEMs, Device Manufacturers, Certification Labs, Governments, Semiconductors

Systematic R&D project(s): RISQ

SECURE-IC
15, rue Claude Chappe
Bâtiment B - ZAC des Champs Blancs
35510 CESSION-SÉVIGNÉ

www.secure-ic.com

Contact: Mrs Sabrina Gomm
sabrina.gomm@secure-ic.com
Head count: 50 employees
SafeRiver has developed a set of services for software security based on:

- Design and Coding Rules for security (based on JavaSec, CERT Java or Cert C)
- Code production security
- Attack surface Computation
- Detection and Localization of CWE thanks to static code analysis
- COTS (Coverity, Klocwork e.g.): configuration of checkers
- Our tool Carto-C, based on frama-C

- Investigation of the flaws exploitability: Impact and Tainted Analysis with Carto-C
- Design and Coding rules as well as Static Analyzers configuration wrt targeted vulnerabilities are available as “methodological kits”.

Carto-C has been validated against Juliet database test cases.

Key selling point(s): Specific Analyzers for CWE-134, CWE 178; Attack Surface and Assets Protection localization

Key market(s): Security, Transportation

Main customer(s): ANSALDO, ANSSI, Autoliv, GE Transportation, RATP, THALES TCS

Systematic R&D project(s): PISCO

SAFERIVER
9b, rue Delerue
92120 MONTROUGE

www.safe-river.com

Contact: Mrs Véronique Delebarre
veronique.delebarre@safe-river.com
Annual revenue: 1.5 M€
Head count: 20 employees
SPARK Pro 17
Tool for the security and safety of programs

SPARK Pro incorporates a programming language for critical applications in the dependability and safety domains, and code analysis tools to ensure that a SPARK program runs error-free and without violations of expected safety and security properties.

The new version, SPARK Pro 17, enables one to express the expected properties as executable contracts attached to programs, which can be tested and debugged with commonplace development tools, and proven with certainty with the SPARK tools. The new proofing tools make it possible to fully automate the proofings of a module, and to use interactive mode in a development environment.

Key selling point(s): Executable contracts, automation of proofs, testing and proofing combination, applicability to existing code

Key market(s): Security, Safety

Systematic R&D project(s): HI-LITE
SPYNEL
Wide Area Surveillance systems for Critical Infrastructure Protection

Anywhere, anytime, 360° intrusion detection:
Spynel is a unique 360-degree wide-area surveillance system, producing real-time full panoramic images with automatic intrusion detection and tracking capabilities. It provides powerful situational awareness through 360 degree visualization of the surroundings. As a completely passive system, it is invisible to intruders, is not vulnerable to camouflage or jamming, and operates 24/7, whatever the weather.

Early target discrimination for fast reaction:
Compact and robust, Spynel can be quickly deployed to perform multi events detection over extremely large areas in total darkness, fog, or smoke. An unlimited number of tracks are immediately recognized on high resolution images, including hardly detectable threats, such as small, slow or tangential moving targets. It can be a reliable and cost effective standalone perimeter security solution as well as an added layer of capability to systems already in place. Depending on the model, the system can detect a man at a distance of up to 8 km.

Key selling point(s): Detection of all intrusions in real time, simultaneously in all directions up to the horizon

Key market(s): Security, Wide Area Surveillance, Critical Infrastructure Security

Main customer(s): US Army, French Navy, US nuclear power plant, airports and ports worldwide

Systematic R&D project(s): SAFEAROUND

Product Website: www.hgh-infrared.com/Products/Optronics-for-security

HGH SYSTÈMES INFRAROUGES
10, rue Maryse Bastié
91430 IGNY

www.hgh-infrared.com

Contact: Mr Edouard Campana
hgh@hgh.fr
Annual revenue: 10 M€
Head count: 50 employees
The I3 option enables to grab the content of any windows and send it to the VR environment where it is used as a replacement texture.

The replacement is done with a tagged texture, added within the 3D native application and applied onto one object. The result is such that animated content (videos, Animation) or static one (pdf, web pages) can be easily inserted within the 3D world, whatever the 3D native application.

Possible scenarios are:

- Enhancing the 3D content with related 2D content
- Validation of 2D content creation by real time comparison of different instances
- Virtual IHM visibility

Several streams of replacement may be active at the same time. No prerequisite necessary for the window’s content.

Key selling point(s): Display video or real time capture of 2D applications on a panel, Human Machine Interaction scenarios

Key market(s): Security, Energy, Enterprise Information Systems, Telecommunications, Transportation, Automotive, aerospace

Main customer(s): PSA, Airbus, Wichita Pfizer, Renault, Volvo, Lockheed martin, Procter and Gamble, Disney, DCNS, BSH, AGCO

Systematic R&D project(s): SI²M

TechViz I3 Interactive Image Integration
Real time integration of any 2D content within a 3D model

TECHVIZ
63, boulevard Masséna
75013 PARIS

www.techviz.net

Contact: Mr Alexis Vartanian
alexis.vartanian@techviz.net
Annual revenue: 2.8 M€
Head count: 30 employees
TrustyBox provides centralized security solution, quick to deploy and easy to operate. TrustyBox offers all the services of a digital trust scalable platform:

- Electronic signature with personal certificate
- Electronic seal for legal entities
- Validation and long-term extension of any signature
- Time stamping of documents and data
- Encryption and decryption of documents
- Validation of electronic certificates
- Digital safe for archiving with probative value over the long-term

TrustyBox provides a centralized web administration able to manage and audit all services, based on proven solutions (TrustySign and TrustyTime are certified Common Criteria EAL 3+ products). Compliant with eIDAS regulation, TrustyBox is able to fit the highest security and legal constraints.

Key selling point(s): The first appliance including both hardware and software most secured solutions

Key market(s): Security, Enterprise Information Systems, Dematerialization, Trust services, Digital signature, Timestamp, Long term archiving

Main customer(s): Ministère de la Justice, La Poste, Ministère de l’intérieur, EDF, DARVA...

Systematic R&D project(s): PISCO

Product Website: www.c-s.fr

CS COMMUNICATION & SYSTÈMES
22, avenue Galilée
92350 LE PLESSIS ROBINSON

www.c-s.fr
Contact: Mr Nicolas Barret
trusty@c-s.fr
Annual revenue: 176 M€
Head count: 1800 employees
WALLIX ADMINBASTION (WAB)
Protect your Sensitive data, Protect your Intellectual Property, Control your external providers

Wallix AdminBastion (WAB) is a privileged user access control and traceability solution designed for simple integration into information system. In a matter of hours, WAB will give you information on “who, what, when, where and how”, in real time or logs on your privileged users.

WAB controls all access to privileged account by internal or external IT service providers and high-risk users. You can also record their work sessions and review them as and when needed (audit, incident, forensics, etc.) With WAB, you can easily manage IT team turnover and ensure that critical servers cannot be accessed by individuals no longer authorized to do so.

Key selling point(s): Supports proxying for the main available protocol, with SSO and session-recording functionalities

Key market(s): Security, Enterprise Information Systems, Particularly for regulated sectors (banking, health, insurance, payments) and the defense sector (OIV)

Main customer(s): Banks, Insurance, Public sector…

Systematic R&D project(s): ADMINPROXY

WALLIX
118, rue de Tocqueville
75017 PARIS

www>wallix.com

Contact: Commercial Department
sales@wallix.com
Head count: 38 employees
The following products also address the **Security** market:

- **1064CHP** - Page 129
- **6WIND TURBO IPSEC** - Page 130
- **ALT-ERGO** - Page 167
- **CRYPTPAD** - Page 41
- **CUSTOMISED WI-FI PRODUCTS DEDICATED TO FACTORY 4.0 AND IOT MARKETS** - Page 72
- **GNATCOVERAGE** - Page 193
- **GREEN PI** - Page 142
- **LS OBSERVER** - Page 143
- **LUCEOR EXTREME WIMESH ROUTERS RANGE** - Page 144
- **MONTIMAGE MONITORING TOOL (MMT)** - Page 150
- **PALAS** - Page 151
- **PERMAS** - Page 175
- **POINT-TO-POINT LINK FOR TELECOMS OEMS** - Page 152
- **PRIVACIZ** - Page 199
- **SAFE AND SECURE OPC** - Page 81
- **SAFETY ARCHITECT** - Page 204
- **SLC** - Page 156
- **TYPEREX** - Page 211
- **WAAVES** - Page 213
- **WIDY SWIR** - Page 82
- **YELLOW** - Page 64
TELECOMMUNICATIONS
**1064CHP**
Seed laser module for NS pulsed fiber lasers

The 1064CHP 1060 nm high-power single-mode laser module is a seed source designed for both pulsed and CW fiber laser applications that require operating wavelengths in the 1050-to-1070 nm range. This seed module is powered by a fully-qualified in-house chip technology providing outstanding performance, power consumption and reliability.

Low-profile 14-pin butterfly modules are available with an operating power up to 500 mW CW and 1.2 W peak power. They incorporate a thermoelectric cooler (TEC), a precision NTC thermistor and a back-facet monitoring photodiode.

Modules are available with a single-mode polarization maintaining fiber (PMF) pigtail. The modules meet the TelcordiaTM GR-468-Core requirements for hermetic pump modules.

**Key selling point(s):** This seed laser generates NS pulses that are amplified in a MOPA configuration, allowing high-power NS optical pulses out of a fiber laser

**Key market(s):** Telecommunications, Security, Environment, Lidar, Marking, Metrology, Surface treatment

**Main customer(s):** Datalogic, Illuma, JPT, Maxphotonics, Omron, SPI, Trumpf

**Systematic R&D project(s):** VERTICAL

**Competitiveness cluster(s) co-labeling:** Elopsys, Images et Réseaux, Route des Lasers

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**3SP GROUP**
Route de Villejust
91625 NOZAY CEDEX

[www.3spgroup.com](http://www.3spgroup.com)

Contact: Mr Jean-Pierre Hirtz
jphirtz@3spgroup.com

Annual revenue: 42 M€
Head count: 400 employees
6WIND Turbo IPsec
High performance virtual IPsec gateway

The new Speed Series Turbo Appliances are designed to benefit Service Providers, Cloud and Content Providers and Enterprises with the best price/performance ratios when transitioning from hardware to software based appliances for flexibility, efficiency and cost savings.

Compared to hardware-based IPsec Gateways, 6WIND’s Turbo IPsec can save 80% of the cost per gigabit of IPsec throughput.

6WIND’s Speed Series Turbo IPsec, the industry’s first software-based IPsec Gateway appliance, combines IPsec, dynamic routing and stateful firewall features:

- **Data Plane:** IPsec, VLAN, LAG, Routing (including VRRP), IPinIP, GRE, Firewall & NAT, and more
- **Control Plane:** IKE, VRRP, Routing (RIP, OSPF, BGP), and more
- **Services:** DHCP, SNMP, and more
- **IPv4 and IPv6**
- **Performance:** Over 100 Gbps IPsec throughput while performing both crypto and authentication on all packets without external crypto technology on a Quad Intel® Xeon® Processor E7-4800 v2 Series system @ 2.8 GHz leveraging only 22 cores.

**Key selling point(s):** IPsec, software appliance, performance, cost

**Key market(s):** Telecommunications, Enterprise Information Systems, Security

**Main customer(s):** Network and telecoms equipment providers, telcos and cloud providers

**Systematic R&D project(s):** 6WIND

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**6WIND**
1, place Charles de Gaulle
Immeuble Central Gare - Bâtiment A
78180 MONTIGNY-LE-BRETONNEUX

[www.6wind.com](http://www.6wind.com)

Contact: Mr Eric Carmes
eric.carmes@6wind.com
Head count: 80 employees
The new Speed Series Turbo Appliances are designed to benefit Service Providers, Cloud and Content Providers and Enterprises with the best price/performance ratios when transitioning from hardware to software based appliances for flexibility, efficiency and cost savings.

Compared to competing software routers, 6WIND’s Turbo Router can deliver up to twice the performance at ¼ the price.

6WIND’s Speed Series Turbo Router combines dynamic routing and stateful firewall features in a high performance software appliance:

- **Data Plane**: VLAN, LAG, Routing (including VRF), IPinIP, GRE, Firewall & NAT, and more
- **Control Plane**: VRRP, Routing (RIP, OSPF, BGP), and more
- **Services**: DHCP, SNMP, and more
- **IPv4 and IPv6**
- **Performance**: Over 200 Gbps IP Forwarding throughput on a Quad Intel® Xeon® Processor E7-4800 v2 Series system @ 2.8 GHz leveraging only 22 cores out of 40.

**Key selling point(s):** Routing, software appliance, performance, cost

**Key market(s):** Telecommunications, Enterprise Information Systems

**Main customer(s):** Network and telecoms equipment providers, telcos and cloud providers

**Systematic R&D project(s):** 6WIND

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**6WIND**
1, place Charles de Gaulle
Immeuble Central Gare - Bâtiment A
78180 MONTIGNY-LE-BRETONNEUX

www.6wind.com

Contact: Mr Eric Carmes
eric.carmes@6wind.com

Head count: 80 employees
6WIND Virtual Accelerator

Accelerated virtual switching and networking features for virtual infrastructures (NFV, SDN, Data Center)

6WIND Virtual Accelerator runs within the hypervisor domain with a hardware-independent architecture that allows new and existing Virtual Machines to be integrated quickly onto x86-based servers. As the industry’s only transparent virtual infrastructure acceleration solution, 6WIND Virtual Accelerator is provided as a simple software package so that customers do not have to replace or modify existing software such as Open vSwitch (OVS), Linux, Hypervisors and OpenStack. It delivers:

- Network hardware independence for seamless hardware upgrades, including 10G to 40G to 100G ports
- Wire speed performance required to enable high density, compute intensive VMs on a single server
- Flexible virtual switching support for Open vSwitch and Linux bridge with no modifications
- Complete virtual networking infrastructure with VLAN, VXLAN, Virtual Routing, IP Forwarding, Filtering and NAT
- Native Virtio support for VMs based on different OSs
- High bandwidth for VM to VM communications required for Service Chaining
- Transparent orchestration support for OpenStack and SDN

Key selling point(s): Performance, Transparent Architecture

Key market(s): Telecommunications, Enterprise Information Systems

Main customer(s): Network and telecoms equipment providers, telcos and cloud providers

Systematic R&D project(s): 6WIND

6WIND
1, place Charles de Gaulle
Immeuble Central Gare - Bâtiment A
78180 MONTIGNY-LE-BRETONNEUX

www.6wind.com

Contact: Mr Eric Carmes
eric.carmes@6wind.com
Head count: 80 employees
6WINDGate
High-performance networking software

6WIND’s commercial software solves performance challenges for network vendors in the telco, enterprise and cloud Infrastructure markets.

The company’s 6WINDGate™ packet processing software is optimized for cost-effective hardware running Linux with a choice of multi-core processors, to deliver a wide variety of networking and security protocols and features.

By solving critical data plane performance challenges on multi-core architectures, 6WINDGate enables a cost-effective value proposition, enabling the transition to the future with software-defined networks (SDN) and network functions virtualization (NFV).

6WINDGate is provided in source code to develop faster networking-based applications.

Key selling point(s): 10x performance compared to standard software architectures without any impact on OS and hypervisor

Key market(s): Telecommunications, Enterprise Information Systems, Generic

Main customer(s): Network and telecoms equipment providers, telcos and cloud providers

Systematic R&D project(s): 6WIND

6WIND
1, place Charles de Gaulle
Immeuble Central Gare - Bâtiment A
78180 MONTIGNY-LE-BRETONNEUX

www.6wind.com

Contact: Mr Eric Carmes
eric.carmes@6wind.com
Head count: 80 employees
AiC 2.0
Easily automate large scale testing of your Android applications

AiC 2.0 software aims to facilitate Android applications testing, in a market context crowded with many devices, from many vendors supporting many Android versions.

AiC 2.0 exposes 2 main functionalities:
- Android system virtualisation and display in a webpage: allows the user to choose an Android device and to use it directly in its browser. He can then modify sensors to mock execution environment, as well as sharing his Android view with other users, to reproduce issues by example.
- Dedicated language to easily express your functional tests: allows to describe use cases on two levels: interactions with the application interface, and Android system sensors stimulation. these use cases are then ran over asynchronous campaigns, providing hundreds of Android instances.

The final service will be delivered through a SaaS solution, available anywhere from any web browser.

Key selling point(s): Api-based, OpenStack software
Key market(s): Telecommunications
Main customer(s): Android development companies
Systematic R&D project(s): AiC 2.0

Product Website: www.aic-project.github.io/

ALTER WAY
1, rue Royale - Bâtiment D
227, les Bureaux de la Colline
92210 SAINT-CLOUD

www.alterway.fr

Contact: Mr Jonathan Rivalan
jonathan.rivalan@alterway.fr
Annual revenue: 12.5 M€
Head count: 135 employees
ARCHOS 80 Helium 4G
4G/LTE tablet

Features:
- 8" LTE cat4 tablet
- Android 4.3
- Premium ultra-fine 9.2 mm aluminum design
- 1024 x 768 IPS display
- Quad core processor

Key selling point(s): LTE card tablet, ultra-fine aluminum casing/design, performance/resolution/price

Key market(s): Telecommunications, Entertainment

Main customer(s): Mass-consumer market, B2B market in development (education, industry, health, etc.)

Systematic R&D project(s): SMART4G TABLET, QUATRO2

Competitiveness cluster(s) co-labeling: Capenergies, SCS

ARCHOS
12, rue Ampère
91430 IGNY

www.archos.com

Contact: Mr Guillaume Burkel
burkel@archos.com
Annual revenue: 114 M€
Head count: 120 employees
ARCHOS GamePad2
High-performance Android tablet

Designed and optimized for gaming, the ARCHOS Gamepad 2 brings the Android™ world a genuine high-performance tablet/console.

Features:
- 7” tablets with gamer-dedicated joysticks
- Android 4.2
- 1280 x 800 IPS display
- Quad core processor

Key selling point(s): Tablet with gaming joystick, mapping tool, performance/resolution/price

Key market(s): Telecommunications, Entertainment

Main customer(s): Mass-consumer market, B2B market in development (education, industry, health, etc.)

Systematic R&D project(s): QUATRO2, SMART4G, TABLET

Competitiveness cluster(s) co-labeling: Capenergies, SCS

ARCHOS
12, rue Ampère
91430 IIGNY

www.archos.com

Contact: Mr Guillaume Burkel
burkel@archos.com
Annual revenue: 114 M€
Head count: 120 employees
AR Kamys OptimSpeaker 2
An audio enhancement solution that overcomes the challenges of mobile device audio for speakers and headphones

A complete audio enhancement solution with full package of efficient tuning parameters, 5-MDRC tools and processes to compensate the limitations of portable device audio for speaker and headphones.

**AR Kamys OptimSpeaker 2 includes:**

**A) Algorithms for smartphone:**
- Graphic EQ
- Parametric EQ
- Bass Exciter
- Tonal Shaper
- 5 MDRC Compressor

**B) Tuning Tools:**
- Stereo widening
- 4 reverb presets
- Automatic Gain Control

**Key selling point(s):** Parametric EQ, Zero distortion, rich clarity, Efficient Tuning, Natural Timbre, Tighter Bass, Surround Sound

**Key market(s):** Telecommunications

**Main customer(s):** ALCATEL ONE TOUCH-TCL, Nextbit, Nokia, Sagem, Samsung, Sony Ericsson, ZTE

**Systematic R&D project(s):** DEGIV

**Product Website:**

**ARKAMYS**
31, rue Pouchet
75017 PARIS

www.arkamys.com

Contact: Mr Guillaume Luiggi
gluiggi@arkamys.com
Annual revenue: 8 M€
Head count: 50 employees
Calliope LTE Platform
Chipset Solution for Category 1 LTE Devices for the Internet of Things (IoT)

The Calliope LTE Platform is a member of Sequans’ StreamliteLTE™ family of LTE chipset products for the Internet of Things. Calliope is designed specifically for wearables and other Category 1 M2M and IoT devices. Calliope comprises baseband and RF chips, an integrated IoT applications processor running Sequans’ carrier-proven LTE protocol stack, an IMS client, and a comprehensive software package for over-the-air device management and packet routing. It includes Sequans’ powerful interference rejection technology, Sequans AIR™.

Key selling point(s): Integrated complete LTE solution for internet of thing

Key market(s): Telecommunications, Energy, Factory of the Future, Transportation

Main customer(s): Gemalto, SimCom and Encore Networks (publicly announced)

Systematic R&D project(s): ECOSCELLS, M44G, SOAPS

Product Website: www.sequans.com/products-solutions/streamlitelte/calliope-lte-platform/

SEQUANS COMMUNICATIONS
Les Portes de la Défense
15-55, boulevard Charles de Gaulle
92700 COLOMBES

www.sequans.com

Contact: Mr Guillaume Vivier
gvivier@sequans.com
Annual revenue: 41.29 M€
Head count: 220 employees
CetraC communication technology is a configurable hardware solution (no CPU, no software embedded in FPGA or Asic) that provides secure high-speed gateways relevant to embedded distributed architectures. It manages the whole of communication tasks and lets the CPU power fully available for applications, while ensuring both very low latency (2 sec) and high throughput (10 Gbps).

Being natively multiprotocol, CetraC is fully compatible with established as well as future protocols: ARINC429, MIL-STD-1553, CAN and CAN FD and many more: deterministic Ethernet high-speed networks like Arinc 664P7, TSN, etc.

Of course, CetraC also natively addresses safety and security requirements: cybersecurity functions with native encryption, proven deterministic communication, management of priorities and criticality levels, management of redundancy, flow segregation, distributed clock. CetraC meets the DO6254 DAL-A requirements, at integrity levels SIL-2/SIL-3.

Key selling point(s): Proven real time determinism, Pure HW one chip programmable solution, High bandwidth, Embeddable in LRU
Key market(s): Telecommunications, Critical airborne interconnection systems for A&D and Transport, Hybrid integration benches, Industrial critical I&C and automation
Main customer(s): Airbus, Aviation, Dassault, Safran...
Systematic R&D project(s): CETRAC
Competitiveness cluster(s) co-labeling: ASTech

Products Website:
www.silkan.com/products/cetrac-flying
www.silkan.com/products/cetrac-driving
EVA unit: screening and accelerated aging
Climatic tests and qualification systems

AdvEOTec’s EVA bench enables screening or accelerated aging of optoelectronic components in a controlled environment. It is designed to be adapted to multiple applications, according to the user’s needs.

Equipped with a high-performance climatic chamber, a computer, acquisition and visualization software, and standard or dedicated instruments, it allows one to do evaluation, qualification and burn-in tests on optoelectronic components or subsystems.

It is manufactured, assembled and tested at the company’s workshops and laboratories.

Key selling point(s): Adaptable for different environments, Suitable for diverse components/media

Key market(s): Telecommunications, Transportation, Delivery and production checking, Test laboratories

Main customer(s): Optical, electrical and optoelectronic component and subsystem manufacturers and industries...

Systematic R&D project(s): JASMIN

ADVEOTEC
6-8, rue de la Closerie - Lisses
ZAC Clos aux Pois - CE5270
91052 ÉVRY CEDEX

www.adveotec.com

Contact: Mr Pierre Marcilhac
pmarcilhac@adveotec.com
The EVX 5AS210 is a very fast analog to digital converter, featuring a 20 Giga samples per second conversion rate. Conversion is on 5bits, with a full power bandwidth of 8GHz.

Key selling point(s): Conversion rate at 20GSps with a 8GHz Bandwidth, innovative interfacing system with fast FPGA’s

Key market(s): Telecommunications, Radio Astronomy

Main customer(s): Institut de Radioastronomie Millimétrique de Grenoble (IRAM)

Systematic R&D project(s): TCHATER

Competitiveness cluster(s) co-labeling: Minalogic
Green PI
Low-power Mesh network with embedded datacenter

Green PI is a plug and play Internet infrastructure one can deploy on demand where connectivity is needed. Green PI low power routers (YOI) connect automatically to form a wireless network transferring calls, data and videos over multiple hops (up to 30). Once the network is on, people and connected machines access to a local portal with autonomous information and services hosted close to end users. The setting of a simple gateway will also provide them with an access to the World Wide Web.

Use cases:

- Security: Emergency network, secure wireless Internet for sensitive sites, swarm of connected drones, vehicles and robots, etc.

- Telcos: Cable free Internet infrastructure for rural areas and emerging countries
- Cities, Large Infrastructures & Events: Easy network densification

Key selling point(s): On demand, Autonomous, Affordable

Key market(s): Telecommunications, Digital Cities, Security

Main customer(s): Safran, Airbus, EDF, Engie, Orange

Systematic R&D project(s): RAF, ON DEMAND

GREEN COMMUNICATIONS
86, rue de Paris
91400 ORSAY

www.green-communications.fr

Contact: Mrs Pauline Loygue
contact@green-communications.fr
Annual revenue: 0.5 M€
Head count: 7 employees
LS OBSERVER
Measurement sensors and radio frequency monitoring

The radio frequency monitoring system LS OBSERVER consists of a central control unit (CCU), software for detailed measurement data analysis and various remote measurement units (RMU). These can be fixed, portable, mobile, handheld or airborne - depending on the monitoring exercise.

The RMUs measure and record the entire frequency range all the time. The system then automatically compresses and stores the entire observed spectrum throughout the tuning range of the attached RF front end, while noise and zero occupancy are removed. The compressed data can be stored for up to two years. The measured data can be compared with the frequency usage data registered in the database to detect any new signal - unauthorised frequency use, bugs and illegal transmitters. The system locates the source of illegal transmission via the integrated geo-location functionality, such as handheld direction finding, Time-Difference-of-Arrival (TDOA), Power-Difference-of-Arrival (PDoA) and Angle-of-Arrival (AoA) techniques.

Key selling point(s): Implementation of TDoA and AVD algorithms, advanced interfaces with a spectrum management system

Key market(s): Telecommunications, Energy, Security

Main customer(s): Airports across the globe, security forces, border agencies, regulators, network operators

Systematic R&D project(s): RECOSS

Luceor’s uniquely advanced WiMesh technology is widely used to deploy private mobile broadband networks that can transport voice, video and data at very high speed over vast areas, even when the user is moving or is onboard a high speed vehicle.

With Luceor Routers powered by our innovative LuceorOS, your WiMesh IP network can be deployed in mission-critical situations such as Public Order Events Security, Industrial Safety, Logistics or Train to Ground Rail Connectivity for HD video, Voice or Data.

This new Extreme WiMesh Routers Range include:

- AWS-GigaMesh dedicated to Autonomous &

Fast deployments anywhere even without power availability

- MegaMesh-Rail dedicated to On-board rail non-stop broadband connectivity
- I-MegaMesh dedicated to pedestrian agents, vehicles, robots & drones

Key selling point(s): Private Wireless Broadband, Rapid Deployment, Ultimate Mobility up to 300kmh, High-Symetric throughput

Key market(s): Telecommunications, Digital Cities, Energy, Security, Transportation

Main customer(s): French Ministry of Interior, Belgium Federal Police, City of Paris, Areva, DP World, Transdev, City of Nice

Systematic R&D project(s): PUMA

Product Website: www.luceor.com

LUCEOR
23, avenue Louis Breguet
78140 VÉLIZY-VILLACOUBLAY
www.luceor.com

Contact: Mr Isaac Kalonji
isaac.kalonji@luceor.com

Annual revenue: 3 M€
Head count: 20 employees
Media-Tag
Deliver any media content anywhere

Media-Tag solution aims to deliver any type of web media content on any device, despite networking conditions.

Based on pure web standards the Media-Tag component allows editors to express a single source for all their different media types. The Media-Tag component will then decide which particular media type to display, depending on the user context. This context is defined through specific domain rules, such as bandwidth levels, device capabilities and user status. More advanced rules imply relation between the delivered media and the other document components and or other media content also delivered through the Media-Tag component.

Key selling point(s): All-around media component, modular inner architecture easily upgradable

Key market(s): Telecommunications

Main customer(s): Media publishers

Systematic R&D project(s): UCF

Product Website: www.github.com/UCF-project/media-tag

ALTER WAY
1, rue Royale - Bâtiment D
227, les Bureaux de la Colline
92210 SAINT-CLOUD

www.alterway.fr

Contact: Mr. Jonathan Rivalan
jonathan.rivalan@alterway.fr
Annual revenue: 14 M€
Head count: 150 employees
MEDIANATE
Large Scale Video Processing System for Video Data Operators

Video Surveillance Systems Integrators-Internet VoD Service Providers-Internet Content Delivery Networks (CDN)-Telecom Operators.

**Multiscreen Video Viewing**: Video transcoding into different formats to distribute video over various networks and devices.

**Big Video Data Analysis**: Analysis of huge volume of video tailored to the needs of video surveillance and indexing markets.

**Dynamic Video Editing**: Dynamic on-the-fly insertion of visual data and third party video content in the original content. Ads insertion in video.

**Deployment**: Medianate can be deployed in seamless transition from an inhouse solution to a private and public cloud solution.

**High volume data processing**: Distribution of processing tasks among multiple cooperating computing nodes. Automatic scalability by balance of processing loads in order to handle multiple computing nodes.

**Plug-in architecture for video analysis**: Third party developers of image analysis algorithms can leverage their work by integrating their analysis plug-in in Medianate.

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**Key selling point(s)**: Combine the 3 categories of video processing (encoding | analysis | editing). High performance in big video data processing. Ergonomics of user interface and SOAP/REST API.

**Key market(s)**: Telecommunications, Video surveillance of transport networks and pedestrians in Digital cities. Internet TV and VoD OTT services. Digital TV broadcast

**Main customer(s)**: Institut Nationale de l’Audiovisuelle (INA), Orange, Sohu (China), Thales Transport & Security

**Systematic R&D project(s)**: EVOD, POPS

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**RESONATE MP4**
153, boulevard Anatole France - Tour Pleyel 93200 SAINT-DENIS

[www.resonate-mp4.com](http://www.resonate-mp4.com)

**Contact**: Mr Frédéric Bouilhaguet
bouilhaguet@resonate-mp4.com
EGIDE is a group with an international dimension, specialized in the design and manufacturing of packages for sensitive Electronic and Optronics components. It operates in cutting edge markets in all critical industry segments: Space, Defense, Security, Aeronautics, Telecommunications and Energy. Egide is the leader in infrared packaging technology by mastering Ceramic technology, Glass to metal, Ceramic to metal sealing and plating. Egide Group is the only pure player in this market with manufacturing bases in France and the United States.

Key selling point(s): Design on demand, RF simulation, in-house HTCC ceramic, plating, and assembly, customer support

Key market(s): Telecommunications

Main customer(s): Vectrawave, Thales

Systematic R&D project(s): CONRAHD-MINOS, GENGIS KHAN

Competitiveness cluster(s) co-labeling: Aerospace Valley, Cap Digital
MOBIPASS
The first cloud-based solution for 4G, 5G and IoT network validation and optimization

Ercom is developing Mobipass, a powerful lab load & stress test tool for mobile network equipment validation. Our solution is used by major network vendors during the development cycle of their eNodeBs to optimize performance in a comprehensive and realistic radio environment. Mobile network operators are using Mobipass in their innovation labs to prepare for the applications of tomorrow. Mobipass is based on a very innovative full software technology able to run in a Cloud virtualized environment to cope with the exploding capacity demand of 5G networks in a cost effective way.

After having developed 2G, 3G and 4G, Ercom remains at the edge of innovation and is now working on the coming 5G standard. As a strategic member of OpenAirInterface Alliance, Ercom is contributing to an OpenSource reference implementation of the 5G standard. Ercom is looking for technology partners and innovation departments willing to develop and experiment 5G technology at a very early stage.

Key selling point(s): Flexible (all standards & traffic types) Scalable (native cloud) Realistic (radio conditions) IoT & 5G ready

Key market(s): Telecommunications, Digital Cities, Connected vehicles, connected health, smart cities

Main customer(s): Nokia, Verizon, Videotron, US Cellular, Altiostar

Systematic R&D project(s): 4G IN VITRO

Mobipass test & UE emulation solution

Product Website: www.ercom.com
Monarch LTE Platform
Narrowband LTE Single Chip Cat M1/NB1 Solution for the Internet of Things (IoT)

Monarch is a single-chip LTE Cat M1/NB1 solution designed specifically for narrowband IoT applications, including sensors, wearables, and other low data, low power M2M and IoT devices.

Monarch complies with the ultra-low-power and reduced complexity feature requirements of the 3GPP release 13 LTE Advanced Pro standard, defining narrowband, low data rate LTE technology for machine-type-communications (MTC). Monarch achieves a very high level of integration whereby baseband, RF transceiver, power management, and RAM memory are integrated into a tiny 6.5 x 8.5 mm package, running Sequans’ carrier-proven LTE protocol stack, an OMA lightweight M2M (LWM2M) client for over-the-air device management, and a rich set of AT commands.

Key selling point(s): Integrated complete LTE solution for internet of thing

Key market(s): Telecommunications, Energy, Factory of the Future, Transportation

Main customer(s): Gemalto, Link Labs, Nimbelink, Fibocom and Encore Networks (publicly announced)

Systematic R&D project(s): ECOSCELLS, M44G, SOAPS

Montimage Monitoring Tool (MMT)
Monitoring of network and applications for security and performance

MMT is an innovative network monitoring solution that combines traffic capture, filtering and storage, event extraction and statistics measurement, traffic analysis and report generation, allowing visibility at the network, application and user levels.

Through its real-time and historical reports, MMT facilitates the monitoring of network performance and security, and assists in the troubleshooting of detected incidents. With its advanced rule engine, MMT can correlate real-time events to detect operational incidents. MMT has customizable and ergonomic reporting dashboards, that allow adapting it to different user needs, their profiles and analysis objectives.

MMT is non-obtrusive (doesn’t interfere with the operation of the monitored system), can trigger corrective actions, and can be deployed on different hardware appliances or commodity servers to perform monitoring of up 10 Gbps network link speeds on standard multi-core servers.

Key selling point(s): Monitoring probe and engine for real-time events correlation for network intelligence, security, performance

Key market(s): Telecommunications, Enterprise Information Systems, Factory of the Future, Security, Information and communications technology

Main customer(s): Ericsson, Institut Mines Telecom, Thales, CyberDefCon, DGA

Systematic R&D project(s): DOCTOR, MUSA, SIGMONA

Product Website:
www.montimage.com/products.html

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Key market(s): Telecommunications, Enterprise Information Systems, Factory of the Future, Security, Information and communications technology

Main customer(s): Ericsson, Institut Mines Telecom, Thales, CyberDefCon, DGA

Systematic R&D project(s): DOCTOR, MUSA, SIGMONA

Product Website:
www.montimage.com/products.html
PALAS
Software radio platform for telecommunications signal analysis

This telecommunications signal analysis platform is composed of a radio front-end implemented as a USRP package and a software toolbox implementing various algorithms for signal processing. The USRP package is equipped with antennae and RF cards adapted for the desired frequency ranges, allowing one to intercept an analog radio signal before converting it into a digital signal exploitable by computers. On the processing side, the current version of the platform provides numerous tools for performing broadband spectral analysis and detection of occupied bands, with automatic recognition of wave forms such as WiFi a/g/p, ZigBee, LTE, etc., and reconstruction of the time-frequency plan for resource allocation in LTE.

Key selling point(s): Automatic recognition of waveforms, sequential algorithm for the reconstruction of the time-frequency plan

Key market(s): Telecommunications, Security

Main customer(s): Airbus D&S, Bouygues Télécom, CEA, CNES, CNRS, CSA, DGA, Orange, SFR, TDF, Thales

Systematic R&D project(s): RECOSS, SOAPS

Competitiveness cluster(s) co-labeling: Elopsys

SILICOM
15, boulevard des Chênes
78284 GUYANCOURT

www.silicom.fr

Contact: Mr Jacques Saint-Martin
jsaintmartin@silicom.fr
Annual revenue: 13 M€
Head count: 200 employees
Creation and realisation of a complete chipset operating at high frequency. This transmit/receive chipset operates in E-band and is designed for very high speed wireless telecommunications.

It integrates a low noise amplifier, a frequency multiplier, a down converter, a mixer and a power amplifier. To achieve the best possible integration, a LO buffer and a power detector were integrated on the chipset. The low noise amplifier offers state-of-the-art noise figure.

Key selling point(s): High level of integration in the millimeter wave frequency band and LNA excellent noise figure

Key market(s): Telecommunications, Security

Main customer(s): Telecom suppliers

Systematic R&D project(s): ELHAN

United Monolithic Semiconductors

UMS
10, avenue du Québec - Zone Silic
Bâtiment Charmille
91140 VILLEBÔN-SUR-YVETTE

www.ums-gaas.com

Contact: Mrs Sylvie Mikailoff
sylvie.mikailoff@ums-gaas.com
Head count: 343 employees
PragmaDev provides a set of modeling and testing tools that help manage complexity inherent to developing communicating systems. PragmaDev Studio integrates different tools based on international standards. The tools target architects/system engineers, developers, and testers.

PragmaDev Specifier helps system engineers to unambiguously specify and verify the functionalities of the system, and define the best architecture for performance or energy efficiency.

PragmaDev Developer helps software designers to write maintainable and self-documented code. PragmaDev Tester helps testers to write validation and integration tests with an abstract dedicated language.

PragmaDev Tracer is common to all other tools. It is used in the early phase to describe the expected behavior and properties, and later to trace execution and verify it is conform to the expected properties.

The complete tool set includes bridges from one tool to the other such as automatic test case generation out of a functional model (model based testing).

Key selling point(s): Abstract and executable models and test in an integrated environment

Key market(s): Telecommunications, Avionics, Space

Main customer(s): Airbus, Alcatel-Lucent, ESA, Renault

Systematic R&D project(s): EXOTICUS

Product Website: www.pragmadev.com/product/index.html

PragmaDev Studio

PragmaDev Studio
Praxedo Mobile
Field Service Management Solution

Praxedo Mobile is a SaaS-based mobile workforce management solution targeted at field workers (technicians, auditors/inspectors and drivers/delivery staff).

Praxedo Mobile is made up of two complementary modules:

1. A Web interface to create intelligent schedules and follow activities in real-time:
   - Accessible via a simple internet connexion
   - Easily configurable
   - Map view for smart scheduling
   - Analytic dashboard and key performance indicators

2. A mobile application that allows field workers to capture and upload work order summaries in real-time:
   - Compatible with a large range of smartphones: Android, iOS, Windows, Windows Phone and Chrome
   - Rich feature set includes:
     - Dynamic and rich-media forms (photo, signature, GPS coordinates, etc.) to retrieve information from the field
     - Capture spare parts used on the spot for faster invoicing
     - Ability to send a pdf version of the work order summary directly via email.

Key selling point(s): Multi-tenant SaaS platform, Hybrid mobile application (HTML5/native), whiteboard shared between 2 people

Key market(s): Telecommunications, Enterprise Information Systems, Generic

Main customer(s): Cofely, GLI Services, Kiloutou, Orange Business Services, Razel, TDF, Veolia Eau, Vinci

Systematic R&D project(s): UBIQ XP

Product Website: www.praxedo.com
RRH Radio over Ethernet
Telecom Infrastructure

The Remote RadioHead is a transceiver/receiver integrating all the radio parts of a base station.

RRHs have become one of the most important subsystems of today’s new distributed base stations.

This platform could be FDD or TDD, it supports natively MIMO 2x2 20W per TX port and propose an open radio interface based on ETSI norms, in order to be able to connect this product to any other sub-system vendor through 10GBeth link.

Key selling point(s): LTE, LTE-A, Carrier Aggregation, SDR, C-RAN

Key market(s): Telecommunications

Main customer(s): OEM, small operators, Last miles radio

Systematic R&D project(s): OSTV

AW2S
375, avenue de Tivoli
33110 LE BOUSCAT

www.aw2s.com

Contact: Mr Nicolas Breant
contact@aw2s.com
Annual revenue: 1.5 M€
Head count: 15 employees
SLC
Deterministic indoor/outdoor propagation simulation

Software simulation of the propagation of radio waves, with a computation engine based on the ray-tracing principle. SLC provides the ability to perform simulations in three modes: conduction, indoor radiation, and outdoor radiation. SLC meets radio planning needs, addressing a wide range of frequencies, thus covering the standards: WiFi, GSM, UMTS, LTE, GPS, TETRA, etc.

Based on specific computation modules and libraries for different standards, SLC easily keeps abreast of changes to meet the particular needs of clients in terms of radio propagation studies.
SPECTRA
Frequency spectrum management solution

LS telcom’s SPECTRA system allows regulators around the world to better manage spectrum resources. It includes advanced workflows for application and licence processing, frequency assignment, technical analysis, spectrum planning, complaints management, international coordination and notification as well as financial management.

With SPECTRA, regulators are able to keep an up to date and accurate spectrum management database, accurate fee calculations, in-time invoicing and fee collection, as well as enforcing actions through interfaces with spectrum monitoring systems.

The system consists of a central database and various software modules for the different spectrum management tasks and procedures. The data of all services is stored in the central database for all parties involved in spectrum management to have a single view of the nationwide spectrum. The engineering, spectrum planning and radio monitoring modules are commercial-off-the-shelf, while licence management is specifically adapted to fulfill the exact requirements of the organisation.

Key selling point(s): Efficient spectrum management, faster frequency allocation

Key market(s): Telecommunications, spectrum management, ministries of communications

Main customer(s): ACMA (Australia), Conseil Supérieur de l’Audiovisuel (France), ISED (Canada), Ofcom (UK)…

Systematic R&D project(s): URC

LS TELCOM SAS
4, avenue Morane Saulnier
78140 VÉLIZY

www.lstelcom.com/en

Contact: Mrs Christiane Labitzke
clabitzke@lstelcom.com
Annual revenue: 4.2 M€
Head count: 20 employees

Product Website: www.lstelcom.com/en
SWIICH
Provision of video games in the cloud

Middleware that allows operators to provide video games in the cloud and make them available in real time on any kind of display.

Innovation and benefits of the Swiich system:
- HD gaming
- Very low latency

Key selling point(s): Interactive high-resolution games streaming
Key market(s): Telecommunications, Digital Cities
Systematic R&D project(s): COMPATIBLEONE
Competitiveness cluster(s) co-labeling: SCS

EUREVA
6, rue des Terras au Cure
75013 PARIS
www.swiich.net

Contact: Mr Philippe Martineau
philm@eureva.fr
Annual revenue: 500 k€
Head count: 7 employees
TX-RX C
System for high-bandwidth wireless transmission system at sea or in dead spots - WiFi-compatible

Frequency converter for point-to-point or point-to-multipoint communications. This compact and robust receiver and transmitter is suitable for high-speed wireless communications at sea or in dead spots. It is ideal for Ku-band and Q-band links, among other things, and is compatible with a wide variety of modems (it supports modulations up to 16 QAM for different frequency bands).

Key selling point(s): Very high-speed wireless bandwidth in the Ku band

Key market(s): Telecommunications, Generic

Main customer(s): Actia Sodielec, Bluwan, DCNS, Prana, Thales, Thales Alenia Space

Systematic R&D project(s): SEANET

Competitiveness cluster(s) co-labeling: Pôle Mer Bretagne

DETI
7, rue de Kérélie
29200 BREST

www.deti-sa.com

Contact: Mrs Aude Picard
aude.picard@deti-sa.com
Annual revenue: 800 k€
Head count: 9 employees
EGIDE is a group with an international dimension, specialized in the design and manufacturing of packages for sensitive Electronic and Optronics components. It operates in cutting edge markets in all critical industry segments: Space, Defense, Security, Aeronautics, Telecommunications and Energy. Egide is the leader in infrared packaging technology by mastering Ceramic technology, Glass to metal, Ceramic to metal sealing and plating. Egide Group is the only pure player in this market with manufacturing bases in France and the United States.

EGIDE offers a wide series of packages dedicated to 100Gb/s and 400Gb/s applications. The family of TOSA, ROSA and (µ)ICR packages is compliant with the OIF and CFP standards. EGIDE also proposes a complete portfolio of modulator, laser, pump and WSS packages for All Optical Network. EGIDE delivers standard and custom solutions (MCM, SMD, QFN) for RF and high power devices for radio or radar applications up to 47GHz.

µICR for 100 to 400Gb/s
WOLPHIN
Billing solutions for containers based infrastructures

In a context where Virtual Machines are gradually abandoned in favor of containers based hosting services, ability to measure, control and finally bill precisely the resources used by the customers is appearing as a critical feature.

WOLPHIN offers a state of the art approach to this problem, by leveraging existing solutions (such as Prometheus, Influxdb, ElasticSearch…) in a ready to use package, offering the ability to collect all data generated by the hosts machines where its agents are deployed, from metrics to logs, system and application wise.

WOLPHIN introduces an hybrid scheduling strategy, following the trend for elastic services, providing provisioning optimizations while respecting native mechanisms for containers based orchestrators.

Finally, since its architecture relies on configuration layers, WOLPHIN is extremely modular and can adress most if not all the metrology, monitoring and billing needs for hosting providers.

Key selling point(s): Flexible, modular, resilient, distributed
Key market(s): Telecommunications
Main customer(s): Alter Way, Gandi, Objectif Libre
Systematic R&D project(s): WOLPHIN 2.0

Product Website: www.wolphin.gitlab.io/
The following products also address the **Telecommunications** market:

- **CORPORATE ID** - Page 71
- **DATAMETRIE GLOBAL EXPERIENCE** - Page 189
- **ELEOCARE** - Page 92
- **ESIRIUS - EAPPOINTMENT** - Page 13
- **EVALUATE** - Page 104
- **GREEN PI** - Page 142
- **JAGUAR NUC FAMILY** - Page 108
- **KRYPTO BOARDS** - Page 109
- **LUCEOR WIMESH SOLUTION** - Page 14
- **MATELO** - Page 50
- **MNETBOX** - Page 51
- **MOBILE-IT QUANTUM** - Page 113
- **PROACTIVE WORKFLOWS & SCHEDULING** - Page 55
- **PROTECT** - Page 115
- **PROVENCORE** - Page 116
- **PROVENCORE-M** - Page 117
- **RUM BI** - Page 203
- **SERVICE & CERTIFY** - Page 118
- **TECHVIZ I3 INTERACTIVE IMAGE INTEGRATION** - Page 122
- **TYPEREX** - Page 211
- **USE IT CLOUD** - Page 60
- **VORTEX INTELLIGENT DATA SHARING PLATFORM** - Page 212
- **WEBDYNGRID** - Page 33
- **WIDY SWIR** - Page 82
Alt-Ergo
SMT Solver for Automated Program Verification

Alt-Ergo is an open-source SMT solver tuned for the context of program verification. It is used behind verification tools such as Frama-C, SPARK, Atelier-B and Caveat, to increase the degree of proof automation, and lower the cost of verifying industrial safety-critical software. Alt-Ergo has been successfully used by major industrial companies.

- Airbus Industries uses it to prove correctness of industrial avionic systems, with DO-178C qualification.
- It recently increased Atelier-B industrial projects’ proofs automation rate from 86% (success rate of Atelier-B’s default prover) to 98%.

Initially conceived at LRI and Inria, it is developed and maintained by OcamlPro. Besides its worldwide yearly open source release, that comes with weekly updates available to academics and OCamlPro’s customers, Alt-Ergo provides extensions and services on private versions that include qualification kits, corrective and evolutive support.

Use of Alt-Ergo in Why to prove the correctness of a binary search function written in C

Key selling point(s): Formal verification, open source, Polymorphic Typed Input Language, high-resolution ratio, functional style

Key market(s): Transportation, Healthcare, Security, Railways, Avionics, Aerospace, Critical Systems

Main customer(s): Adacore, CEA, Airbus, Clearsy

Systematic R&D project(s): BWARE, SOPRANO

Product Website: www.alt-ergo.ocamlpro.com
ARKAMYS SoundStage

SoundStage solution is a modular, scalable and embedded audio software to improve in-car audio quality

ARKAMYS SoundStage solution enhances the sound scenes for everyone in the car by elevating the sound stage to provide a superb listening environment as if it is being played from a concert stage.

ARKAMYS experts have developed a modular, scalable and embedded software solution to improve in-vehicle audio quality and enhance user experience for all types of infotainment systems from entry-level to premium cars using the existing built-in speakers.

SoundStage is being used by top car makers to give drivers and passengers superior sound perception and a high-fidelity audio rendering.

Key selling point(s): Surround, Bass enhancement, car cabin optimization, speed dependent processing

Key market(s): Transportation

Main customer(s): Banma, Bosch, Clarion, Continental, DFM, GM, HSAE, Hyundai, Kia, Magneti Marelli, Nissan, PSA, Renault, SAIC, SKODA, Visteon

Systematic R&D project(s): DEGIIV

Product Website: https://www.arkamys.com/automotive-audio/solutions-automotive/

ARKAMYS
31, rue Pouchet
75017 PARIS

www.arkamys.com

Contact: Mr Guillaume Luiggi
gluiggi@arkamys.com
Annual revenue: 8 M€
Head count: 50 employees
Designed thru the action sports, the sensors can relay performances in a unique way. Thanks to the 3D Dotvision Motion applications and interface, the community can follow - live or via replay - the location and movements of the equipped person, notably all his/her movements and actions.

**Dotvision GPS tracker:**
Master sensor used standalone and/or with its peripherals, sensors. It incorporates GPS, an inertial unit and an interface for communications with cloud facilities. It enables one to aggregate, centralize and transmit data from motion sensors, via GSM and other networks.

**The Dotvision sensor:**
The sensor incorporates a high-precision inertial unit with an accelerometer, a gyroscope, a compass and a barometer. It is able to continuously capture movement and relay it via the 3D Motion interface. It communicates via the motion tracker.

Key selling point(s): 3D motion sensor, live GPS tracking

Key market(s): Transportation, Generic, Sport

Main customer(s): Sports event organisers, Raid GDF Suez, Red Bull, Alstom transport, Government

Systematic R&D project(s): EPIT 2.0

Product Website: [https://motion.dotvision.com/Solutions/Tracking](https://motion.dotvision.com/Solutions/Tracking)
GEKKO
Portable equipment for non-destructive testing

Gekko is a portable device for non-destructive testing (NDT) using phased-array ultrasound. It implements the most-advanced techniques to allow field testing meeting the needs of various industrial sectors: aerospace, steel, petrochemicals, automotive and nuclear. Gekko performs high-quality tests on 64 parallel channels, and is capable of steering matrix probes and implementing optimized real-time imaging techniques (Total Focusing Techniques). The hyperfocalization and 3D vision features allow optimal reading of results. Gekko’s simple interface and applications system enables step-by-step testing reducing the risk of errors. The device also incorporates the latest features of the CIVA simulation platform for internationally-recognized NDT.

Key selling point(s): Matrix probes, Real-time all-points focusing (TFM), 3D, Pulse-echo, pitch-catch, TOFD, DDF

Key market(s): Transportation, Energy, Aerospace, Metalurgy

Systematic R&D project(s): OPARUS

Competitiveness cluster(s) co-labeling: Minalogic, Optitec

Product Website: www.m2m-ndt.com/products/Gekko.htm

M2M
1, rue de Terre-Neuve
Miniparc du Verger - Bâtiment H
91940 LES ULIS

www.m2m-ndt.com

Contact: Mr Guillaume Neau
g.neau@m2m-ndt.com
Annual revenue: 5.1 M€
Head count: 45 employees
Geo-PNT
Accurate timing, position and attitude in a single box

Geo-PNT is an effective rugged and small footprint solution for PNT application. PNT stands for Position Navigation and Timing information which enable to localize physical object within 3D space and time. It combines in a single box high-performance versatile position and attitude measurement function with an accurate time distribution server. Geo-PNT unit embeds IMU quartz MEMS coupled with a GPS receiver running in autonomous or differential (RTK) mode.

Thanks to IMU and very high stability oscillator, both navigation solution and internal accurate time are kept in all typical circumstances for dynamic platform including GPS signal temporary loss. Geo-PNT is available with a L1 GPS receiver or with a L1/L2 SAASM GPS receiver.

Geo-PNT minimizes size, weight and power (SWAP) through integration of positioning and timing which are usually implemented into two separate subsystems. It is an affordable solution for embedded test bench, radar, optical, infrared, electronic warfare, satellite communication payloads where it drastically reduce implementation and operation cost.

Key selling point(s): Coupling of a MEMS 6D system with a GPS receiver and a OCXO or CSAC ultra-stable frequency reference

Key market(s): Transportation, Automotive, Aeronautic, Marine, Civil and Military

Main customer(s): Airbus, Dassault, DCNS, Nexeya, Nexceler, Thales, Zodiac

Systematic R&D project(s): IPCHRONOS

Product Website: http://spectracom.com/documents/geo-pnt-datasheet

OROLIA SPECTRACOM
3, avenue du Canada - Parc Technopolis
91974 LES ULIS

www.spectracomcorp.com

Contact: Mr Emmanuel Sicsik-Paré
sales@spectracom.fr
Annual revenue: 72.6 M€
Head count: 327 employees
GSG6X OPTION RSG
“Hardware-in-the-loop” real-time navigation simulation

GSG satellite navigation signal generator with a real-time scenario generation (RSG) option is a powerful but affordable tool for integration of navigation function within platforms into real-time simulations. Steered by the global simulator, the GSG generator adapts the radio signals generated according to the mission, applying a trajectory refresh rate up to 0.1 Hz. True-to-life operation with radio signals from the navigation system is thus incorporated into the mission’s global simulation loop. It’s the “hardware-in-the-loop” concept.

Applications leveraging this technology are land vehicle, ship and aircraft simulators, mission training systems with onboard payloads such as optronics, radar and detection/location systems.

Key selling point(s): Unlimited simulation time, stationary reaction time can be compensated for, parallelization for up to 256 signals generation

Key market(s): Transportation, Aircraft, Drones, Military, Ships

Main customer(s): Airbus, BAE, Daimler, Dassault, Nexter, PSA, Renault, Safran

Systematic R&D project(s): IPCHRONOS

OROLIA SPECTRACOM
3, avenue du Canada - Parc Technopolis
91974 LES ULIS

www.spectracomcorp.com

Contact: Mr Emmanuel Sicsik-Paré
sales@spectracom.fr
Annual revenue: 72.6 M€
Head count: 327 employees
M’key
Innovative system for shared mobility

M’Key is the key-holder developed by MOPeasy. When reserving a vehicle via the platform, the user receives a code that allows him/her to open the key-holder and retrieve the key of the vehicle reserved.

This innovative solution enables dematerialized sharing of all types of vehicles, without any change to their construction, because the key-holder is installed in a reception facility separate from the vehicle. What makes M’Key innovative is that it works both in “online” mode and “offline” mode.

M’Key facilitates the development of fleet management, by enabling the provision of vehicles to users, sharing with a neighboring company, or usage by public authorities, in simplicity, in all circumstances, and with or without RFID cards.

Key selling point(s): Mobility platform, vehicle-sharing, car-pooling, traveler information
Key market(s): Transportation, Energy, Digital Cities
Main customer(s): CSTB, Colas, EDF, Groupe Plural, Public authorities Neuilly Sur Seine, Marne la Vallée...
Systematic R&D project(s): MOLECULES
Competitiveness cluster(s) co-labeling: Advancity, Moveo

Product Website: http://clem-e.com/fr/mkey

CLEM’
9, villa des Sablons
92200 NEUILLY-SUR-SEINE

www.clem-e.com

Contact: Mr Stanislas Soufflet
stanislas.soufflet@mopeasy.fr
Annual revenue: 1 M€
Head count: 15 employees
In a world where everything is or will be connected, even the smallest sensors and devices incrementally become smarter, getting the ability to capture, exchange and process information through multiple networks far beyond our control. This new paradigm is deeply changing the way we behave, consume, move and live.

In particular, the transport industry and its clients are deeply impacted by this connected revolution. Every day, new B2B and B2C services are being developed under the watchful eye of the governments who want to be part of the change and try to improve road safety, quality of information, citizen privacy and reduce air pollution, among others.

Object ID is a solution that manages the digital identities of connected devices. It uniquely recognizes each object, combats forgery and remotely transfers data in order to trigger actions or help with decision-making when necessary.

Key selling point(s): Intelligent Transport Systems (ITS), PKI, security, VtoX

Key market(s): Transportation, Digital Cities, Energy, Security

Main customer(s): Alstom, Renault, Peugeot, Ethiad, Airbus, SNCF

Systematic R&D project(s): ISE

Competitiveness cluster(s) co-labeling: IRT SystemX

Product Website: www.idnomic.com/object-id/?lang=en
PERMAS
Numerical finite-element simulation software of very large models and complex assemblies

The PERMAS computation code is a structure calculation software employing the finite-element method, and enables the simulation of very large models and complex assemblies in the following domains:

- Thermo-mechanical analysis and heat transfers with radiation
- Simulation of contact and bolted structures
- Vibration analysis, vibro-acoustics and fluid-structure interaction
- Dynamics of rotors
- Vibration simulation with active control
- Topology, parametric and robust optimization, and reliability analysis

- Multi-physics simulation (electromagnetism, thermal and mechanical)
- Coupling with fluid mechanics code (CFD)

Numerical applications with PERMAS

Key selling point(s): Simulation of very large models, computation performance
Key market(s): Transportation, Energy, Generic, Security, Space, Marine engineering
Main customer(s): ArianeGroup, Daimler, NAVAL Group, DLR, Mahle, Porsche, ZF
Systematic R&D project(s): EXPAMTION, INCAS
Competitiveness cluster(s) co-labeling: ASTech, Mov’eo

Product Website: www.intes.fr

INTES FRANCE
40, rue Sadi Carnot
78120 RAMBOUILLET

www.intes.fr

Contact: Mr Jacques Marchesini
jacques.marchesini@intes.fr
Annual revenue: 0.59 M€
Head count: 5 employees
**PhiControl**

Design and simulate model based predictive controllers

PhiControl is a library of Simulink® blocks to design, tune, analyze and simulate advanced control systems. PhiControl ensures easy design of the complete closed-loop while including process constraints. The control blocks enable the management of operating modes and fault detection. PhiControl supports C-code generation for rapid prototyping and embedded system design.

PhiControl provides PFC (Predictive Functional Control) controllers which are suitable for most control problems even unusual dynamic behavior. It also provides classical PID (Proportional-Integral-Derivative) controllers. In order to simulate and analyze the control loop, PhiControl provides models for actuators and sensors, as well as blocks for signal processing and fault injection and detection. The library is fully compatible with Simulink®, and has also been exported to other simulation environments such as AMESim, Dymola and SimulationX.

**Key selling point(s):** Predictive control, Multi-mode and fault management, C-code generation

**Key market(s):** Transportation, Energy, Automotive, Aerospace & Aeronautics, Process Industry

**Main customer(s):** Alstom Power, CEA List, JTEKT, PSA, Renault, Safran, Schneider Electric

**Systematic R&D project(s):** ADN4SE

**Competitiveness cluster(s) co-labeling:** Minalogic

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**SHERPA ENGINEERING**

12, avenue Verdun
92500 LA GARENNE-COLOMBES

[www.sherpa-eng.com](http://www.sherpa-eng.com)

Contact: Mr Philippe Fiani
p.fiani@sherpa-eng.com

Annual revenue: 6.5 M€
Head count: 85 employees
**PhiSim**

Multi-physics modeling platform for behavior simulation of controlled systems

PhiSim is a software tool designed for engineers working on modeling controlled dynamic systems involving multiple physical domains. PhiSim allows handling models of physical systems in a Bloc-Diagram environment with more flexibility, quicker and cheaper model development and simulation, as well as with easier model maintenance.

PhiSim incorporates libraries, tools and utilities that facilitate the modeling and simulation of controlled dynamic systems. The libraries are compatible with the Simulink® simulation environment, and have also been exported to other simulation environments such as AMESim, Dymola, SimulationX.

**Key selling point(s):** System modeling and simulation, Control design, Business models, HIL-compliant

**Key market(s):** Transportation, Energy, Automotive, Aerospace & Aeronautics, Process Industry

**Main customer(s):** Alstom, Air liquide, DCNS, IFP, JTEKT, Renault, Safran, Schneider Electric

**Systematic R&D project(s):** EDONA

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**SHERPA ENGINEERING**

12, avenue Verdun
92250 LA GARENNE-COLOMBES

[www.sherpa-eng.com](http://www.sherpa-eng.com)

Contact: Mr Philippe Fiani
p.fiani@sherpa-eng.com
Annual revenue: 6.5 M€
Head count: 85 employees
ProLB, previously called LaBS, is an innovative Computational Fluid Dynamics (CFD) software. Based on the Lattice-Boltzmann method, its successfully-validated solver performs inherently transient simulations of highly complex flows with a competitive turnaround time. ProLB’s accurate aerodynamic and aeroacoustic modeling allows engineers to make early design decisions that optimize and shorten the product development process.

Key selling point(s): Computational Fluid Dynamics based on the lattice Boltzmann method

Key market(s): Transportation, Energy

Main customer(s): Airbus, Renault, Nissan, Valeo

Systematic R&D project(s): LABS

Competitiveness cluster(s) co-labeling: LUTB, Mov’eo
RokCell
Characterization of porous materials for time domain models

RokCell is an assistant for the characterization of porous materials via impedance tube measurements. Besides porous material and fabrics characterization, RokCell allows the identification of an impedance model suitable for numeric time domain schemas, including absorbent treatments such as perforated plates or porous materials (fibrous, foams, etc.). Target applications include aeroacoustic calculations in the automotive, aerospace and rail domains, or sound propagation in the environment. It allows direct exporting of results for the LaBS software, that is based on the LBM method (Lattice Boltmann method). More generally, it is suitable for all CFD models using a time domain impedance model of Özyörük type.

Key selling point(s): From impedance tube measurements or simulations, adjustable frequency range, variable incidence

Key market(s): Transportation, Energy

Main customer(s): Airbus, Renault

Systematic R&D project(s): LABS

Competitiveness cluster(s) co-labeling: LUTB, Mov’eo

Product Website: http://rokcell.matelys.com/
The SAUL Ultrasound surface-adapted method is a fully automated solution with one probe, one software tool and one file, capable of handling more than 250 geometries (flat surfaces, concave or convex).

During testing, a single probe is used to test a large variety of geometries. This is achieved by means of an iterative algorithm that does not require knowledge of the geometric and acoustic properties of the component under inspection. The SAUL method is compatible with factory production constraints, and has notably been deployed at EADS Composites Aquitaine.

**Key selling point(s):** Fully-automated inspection, real-time composite testing, over 250 geometries handled

**Key market(s):** Transportation, Composite components, Aerospace, Metals production

**Systematic R&D project(s):** CORTEX 3D

**Product Website:**
www.m2m-ndt.com/technology/SAUL_principles.html

**M2M**
1, rue de Terre-Neuve
Miniparc du Verger - Bâtiment H
91940 LES ULIS

**www.m2m-ndt.com**

**Contact:** Mr Guillaume Neau

**g.neau@m2m-ndt.com**

**Annual revenue:** 5.1 M€

**Head count:** 45 employees
Tools for Numerical Language Tools
Customized Tools for Numerical Languages

The high-tech industry uses many domain-specific numerical languages to develop new products: modelisation languages (Modelica), scientific languages (Matlab, Scilab, R, etc.), optimization languages (Cplex, etc.). Most of these languages have been developed by actors of the industry, to fill their immediate needs, and not by traditional actors from the software industry. As a consequence, they lack the usual tools available for other languages: editors and editing tools, code generators, compilers, code analyzers, style-checkers, translators, converters, etc.

OCamlPro is specialized in programming languages. Originally devoted to the OCaml programming language, we are involved in collaborative projects to work on numerical languages, for which we develop new tools: Scilint, a code analyzer for Scilab; Optal, a new compiled optimization language, OcpModelica, a style-checker for Modelica. Based on this experience, we now develop tools for these languages on-demand, opensource when possible, to improve the productivity of our customers in their favorite language.

Key selling point(s): On-demand customized tools, productivity increase for numerical languages

Key market(s): Transportation, Generic, Simulation, Modelisation

Main customer(s): INRIA

Systematic R&D project(s): RICHELIEU

The Scilint Code Analyzer is available in opensource

OCamlPRO
6, allée de la Croix Saint-Pierre
91190 GIF-SUR-YVETTE

www.ocamlpro.com

Contact: Mr Fabrice Le Fessant
contact@ocamlpro.com
Annual revenue: 1.0 M€
Head count: 13 employees
The following products also address the **Transportation** market:

- **ALICES** - Page 23
- **CALLIOPE LTE PLATFORM** - Page 138
- **CASTEL** - Page 101
- **CUSTOMISED WI-FI PRODUCTS DEDICATED TO FACTORY 4.0 AND IOT MARKETS** - Page 72
- **DATAMETRIE GLOBAL EXPERIENCE** - Page 189
- **E_TALEA: BRIDGING THE GAP AMONG DISCIPLINES** - Page 190
- **EVA UNIT: SCREENING AND ACCELERATED AGING** - Page 140
- **EVALUATE** - Page 104
- **GNATCOVERAGE** - Page 193
- **JAGUAR** - Page 107
- **LUCEOR EXTREME WIMESH ROUTERS RANGE** - Page 144
- **LUCEOR WIMESH SOLUTION** - Page 14
- **LYNX** - Page 110
- **MATELO** - Page 50
- **MODEFRONTIER** - Page 29
- **MONARCH LTE PLATFORM** - Page 149
- **NCSIMUL 4CAM** - Page 74
- **ODYSSEE** - Page 75
- **PROACTIVE CLOUD AUTOMATION** - Page 54
- **PROACTIVE WORKFLOWS & SCHEDULING** - Page 55
- **PROTECT** - Page 115
- **PROVENCORE** - Page 116
- **PROVENCORE-M** - Page 117
- **RUM BI** - Page 203
- **SERVICE & CERTIFY** - Page 118
- **SIMEO CONSULTING** - Page 30
- **SLC** - Page 156
- **SOFTWARE SECURITY VERIFICATION** - Page 119
- **TECHVIZ I3 INTERACTIVE IMAGE INTEGRATION** - Page 122
- **TECHVIZ VR COLLABORATION** - Page 210
- **UBILOOP** - Page 17
ASTERIOS
Automated integration solution for mixed-critical applications on single or multicore platforms

With ASTERIOS parallel real-time applications are as simply and safely designed as sequential programs.

ASTERIOS enables to describe explicitly all the end-to-end real-time requirements of the application, even if non-periodic, multi-clocked or event-driven. It then configures automatically all the RTOS-related mechanisms needed to run the real-time application on the selected hardware platform. No more semaphores, no more deadlock or priority inversions. The scheduling, the spatial and temporal partitioning, the synchronization of data exchanges are all automatically configured to match the set of real-time requirements. Determinism and freedom from interference at multi-task level are both ensured by construction.

ASTERIOS also includes simulation functionalities to debug the temporal behavior of the application. The application can be incrementally architected, enriched, modified or validated, all on a desktop computer with simulation alone. A simple compilation directive is used to select a supported hardware platform and the number of cores to run the application.

Key selling point(s): Automatic calculation of scheduling, partitioning, data synchronization; Automatic integration on multicore

Key market(s): Generic

Main customer(s): Schneider-Electric, Safran, Areva, Delphi, IFP-EN, Alstom

Systematic R&D project(s): ADN4SE, FSF

Competitiveness cluster(s) co-labeling: Minalogic

KRONO-SAFE
86, rue de Paris - Bâtiment Erable
91400 ORSAY

www.krono-safe.com

Contact: Mr Samuel Dellacherie
contact@krono-safe.com

Annual revenue: 1.2 M€
Head count: 35 employees
Plastic cases with cavity for semiconductor chips based on liquid crystal polymers or metal matrix composites, or on a combination thereof.

DIP, QFP, QFN industry-standard format, and custom designs, but with a cavity.

Associated service provided for chip packaging.

Applications: all types of chips that cannot be embedded in resin and that require a cavity or an opening in the housing to the outside environment.

Key selling point(s): Liquid crystal polymers, metal-matrix composite of ultra-light weight and with high heat dissipation

Key market(s): Generic

Main customer(s): STMicroelectronics, aeronautics and space equipment suppliers, manufacturing industry, telecoms

Systematic R&D project(s): EHLAN

NOVAPACK
14, rue des Glairaux
38120 ST-EGRÈVE

www.novapacktech.com

Contact: Mr Renaud de Langlade
r.delanglade@novapack.fr

Annual revenue: 1.4 M€
Head count: 17 employees
Datametrie Global Experience
Comprehensive monitoring to ensure smooth operation of all of your digital services

Datametrie Global Experience is a comprehensive monitoring system that measures the quality perceived by the users of your digital services. It relies on robots to measure the availability and performance of applications from controlled measuring environments (synthetic monitoring) and also collects measurements generated by your actual users (real-user monitoring).

Combining the latest technological advances in supervision and analysis of user experience, the solution tracks the availability and performance experienced by each user, on fixed or mobile devices, regardless of the operating system, browser or location.

Key selling point(s): Improved calibration of QoE probes, validation of reliability measurements (QoS/QoE correlations)

Key market(s): Generic, Energy, Enterprise Information Systems, Healthcare, Telecommunications, Transportation, Banking, Insurance, Industry, E-commerce, Media, Public Sector…

Main customer(s): Allianz, AXA, Barclays, Dior, EDF, Mobistar, Orange, Sanofi, SFR, SNCF, Total, TUI Fly…

Systematic R&D project(s): BOTTLENET, IPNQSIS, IPCHRONOS, NEPTUNE, NOTTS, POQEMON, QUEEN, TIMCO

IP-LABEL
90, boulevard National
92250 LA GARENNE COLOMBES

www.ip-label.com

Contact: Mr Benoît Boireau
benoit.boireau@ip-label.com
Annual revenue: 12.5 M€
Head count: 103 employees
E_Talea: bridging the gap among disciplines
A methodological framework to leverage model-based systems engineering

A model-based methodology and a related framework to:

- Deploy MBSE as a systemic company approach to effect change
- Organizing collaboration among disciplines
- Ensuring traceability from requirements up to simulation and V&V results and among work-products
- Implementing risk management as a basis of development
- Implemented in industrial contexts by the means of consulting, training and skill transfer

Key selling point(s): Customizable framework able to address large-sized and small-sized companies too

Key market(s): Generic, Energy, Healthcare, Transportation, Modeling, Simulation and HPC, Change management, project management, requirements management, system architecture, traceability, system modeling

Main customer(s): Schneider Electric, Automotive consorsium, Archimmed (healthcare)

Systematic R&D project(s): MIMe

Key selling point(s): Customizable framework able to address large-sized and small-sized companies too

Key market(s): Generic, Energy, Healthcare, Transportation, Modeling, Simulation and HPC, Change management, project management, requirements management, system architecture, traceability, system modeling

Main customer(s): Schneider Electric, Automotive consorsium, Archimmed (healthcare)

Systematic R&D project(s): MIMe
eVariX
Matlab® / Scilab compiler towards high performance parallel code for multicore CPU and GPGPU

eVariX implements Silkan’s COLD source-to-source compile technology, to transform instantly your models into optimized parallel code for multicore CPU and GPU processors.

eVariX automatically detects and optimally implements the scripts’ inherent parallelism. For fine tuning, source code annotations can be used to obtain runtime metrics or locally enforce non-default behaviours. Annotations are provided as comments, leaving unaltered the original source code, with no re-writing required.

eVariX delivers either stand-alone executables, or mex / sciw files that can be re-injected in your modeling environment.

The new eVariX 2.6 release provides an automatic, quick and straightforward way to implement your Matlab® innovative algorithms into highly efficient, parallel runtime code on multicore CPUs and/or GP-GPUs.

Key selling point(s): Automatic generation of HPC parallel code. Speeds up by x30 to x300 Matlab® scripts execution

Key market(s): Generic, Any field with practical need of boosting Matlab®/Scilab models: real-time signal or image processing, insurance or finance modelling, etc.

Main customer(s): Thales Air Systems

Systematic R&D project(s): MACH, RICHELIEU, SIMILAN

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www.silkan.net

Contact: Mr Serge Delwasse
contact@silkan.net
Annual revenue: 7 M€
Head count: 55 employees

Product Website: www.evarix.eu
The GEN-I system has been partly designed for optical sources (lasers, LEDs, etc.). It can feed up to 16 circuits while tracking the voltages at the terminals of the components.

The GEN-I system is used to inject a DC current (from 1 mA to 1,000 mA) into a laser or LED and retrieve the value of the voltage at its terminals.

The rack supports up to eight dual-channel modules. It also incorporates a USB communications module connected to a computer.

Key selling point(s): Automated measurements, large current usage scale

Key market(s): Generic

Main customer(s): Optoelectronic and electrical component manufacturers

Systematic R&D project(s): JASMIN

ADVEOTEC
6-8, rue de la Closerie
ZAC Clos aux Pois - Lisses
91052 EVRY CEDEX

www.adveotec.com

Contact: Mr Pierre Marcilhac
pmarcilhac@adveotec.com
GNATcoverage is a structural coverage analysis workbench capable of delivering results compliant with the most-stringent requirements of certification standards for critical software development, notably the DO-178B/C standard for civil avionics.

Based on the instrumentation of execution, simulator or hardware-card-with-sensor environments, GNATcoverage allows non-intrusive analysis of programs ready for embedding on a target. The product supports the C and Ada (83 to 2012) languages. It can be accompanied by qualification hardware for use in certified development, up to level A of DO-178B/C, with support for the MC/DC criterion.

Key selling point(s): Non-intrusive technique, environment instrumentation, simulator/hardware probe, C, Ada 83 to Ada 2012 support

Key market(s): Generic, Energy, Healthcare, Security, Transportation, Aerospace and Defence

Main customer(s): Thales, Raytheon, Airbus, Siemens, Rheinmetall, Northrop Grumann

Systematic R&D project(s): COUVERTURE

Product Website: [http://www.adacore.com/gnatcoverage/](http://www.adacore.com/gnatcoverage/)
Jenji

Jenji is the first realtime, data-driven expense management platform

Jenji is the first realtime, data-driven expense management platform.

Jenji delivers a top-notch mobile and web use experience from in-the-field employees to managers, all the way to accounting, payroll and audit teams. The expense stream is analyzed using Deep Learning techniques, matched to corporate cards transactions, scored for fraud detection and outliers, routed to the correct teams for approval, and then imported into all major accounting and payroll ERP.

Jenji makes expense management a modern field, where the expense data is immediately accessible for human audit and AI-based optimization.

From detecting fraudulent patterns to providing automated advices on expense and travel policy optimizations, Jenji has it all. We aim to provide a financial approach to a domain that previously provided zero intelligence but a few BI reports.

Our ROI is immediate and customers gain 2-3% recoverable VAT, tax optimizations and can look at an additional 5 to 9% EU VAT recovery.

Jenji is the first realtime, data-driven expense management platform.

Key selling point(s): 5-6x ROI, Data-driven, Paperless

Key market(s): Generic

Main customer(s): Agorize, Algolia, Enzo Life Sciences, FFR, LPGA, Neoxam,

Systematic R&D project(s): Jenji Advisor (JAD)

Product Website: jenji.io

JENJI

Grande Arche de la Défense, Paroi Nord
92044 PARIS

jenji.io

Contact: Mr Pierre Queinnec
pierre.queinnec@jenji.io
Annual revenue: 2 M€
Head count: 20 employees
The KONIC40 and KONIC80 make up a family of programmable, high-speed, low-power SmartNIC PCI Express boards for networking and storage applications in data centers.

KONIC 80 delivers 80 GbE performance. It is a full-height, half-length form factor with a 35W power consumption. It interfaces using 16-lane PCIe Gen 3, 2xQSFP+ and has 4GB of DDR.

KONIC 40 delivers 480 GbE performance. It is a low profile form factor with a 25W power consumption. It interfaces using 8-lane PCIe Gen 3, 2xQSFP+ and has 2GB of DDR.

Target Applications
Kalray’s KONIC40/80 SmartNICs are ideally suited for:
- Virtualized Data Center
- Storage servers (encryption, compression, erasure coding, authentication…)
- NFV Data Center
- Security Appliances (Firewall, DDoS, DPI…)
- VPN Gateway

Key selling point(s): Low power, programmable, with a full suite of supported protocols

Key market(s): Generic, Data center

Main customer(s): Data centers, storage servers

Systematic R&D project(s): CHAPI, CRYPTOCOMP, MANYCORELABS, SIMILAN

Competitiveness cluster(s) co-labeling: Minalogic

KALRAY
445, rue Lavoisier
38330 MONTBONNOT

www.kalray.eu

Contact: Mr Stephane Cordova
stephane.cordova@kalray.eu
Head count: 55 employees
MeshGems
Robust and industry-proven meshing components technology for 3D CAD/CAE developers

MeshGems is a suite of state-of-the-art, robust and industry-proven meshing software components designed to help 3D CAD/CAE application developers create, enhance and safely automate the CAD-to-Mesh step of their application.

By leveraging 3D development products with MeshGems, 3D CAD/CAE software developers can focus on building key differentiation from competitors, while reducing the products’ costs and accelerating time-to-market.

Key selling point(s): Industry-proven meshing software technologies, meshing processes automation
Key market(s): Generic, Factory of the Future, CAD/CAE Software Developers (Software Vendors and Industry Market)
Main customer(s): Autodesk, CST, Dassault Systèmes, EDF, MSC Software, Siemens PLM Software
Systematic R&D project(s): CSDL, EHPOC, ILMAB, IOLS, MIEL 3D-MESHER, OPEN HPC, ROMIMA, TIMCO
Competitiveness cluster(s) co-labeling: Advancity

DISTENE
2, rue de la Piquetterie - Campus Teratec
91680 BRUYÈRES-LE-CHÂTEL
www.meshgems.com

Contact: Mr Laurent Anne
laurent.anne@distene.com
Annual revenue: 2.4 M€
Head count: 15 employees

Product Website: www.meshgems.com
MPPA®2-256 Bostan processor
Powerful manycore processor for massively parallel processing

The MPPA®2-256 Bostan Processor is the second generation of Kalray’s programmable manycore processors, pairing exceptional computing performance with low power consumption and real-time processing.

Benefits of using MPPA® Technology
- Proven architecture, scalable for embarrassingly parallel applications
- 5-10x better performance-to-power consumption ratio than that of competitors
- 2-4x faster time-to-market than FPGAs and ASICs
- Performance comparable to Hardwired solutions
- Ease C/C++/OpenCL programmable

Key selling point(s): High performance, Cryptography, Direct SSD control, Computer vision, Low Latency

Key market(s): Generic

Main customer(s): Data center, Embedded systems

Systematic R&D project(s): CRYPTOCOMP, MANYCORELABS

Competitiveness cluster(s) co-labeling: Minalogic

Product Website: www.kalrayinc.com

KALRAY
445, rue Lavoisier
38330 MONTBONNOT

www.kalray.eu

Contact: Mr Stephane Cordova
stephane.cordova@kalray.eu
Head count: 55 employees
The OPAM Package Manager can manage Software Components (binary or source packages) with sophisticated dependencies between components (incompatibilities between components, and requirements for special versions). Using an advanced constraint solver, it continues to provide installation or updating solutions where other tools give-up when the number of components and versions becomes too great.

It is currently being used successfully with the OCaml language, to manage all the Open Source contributions, and can easily be adapted to other languages and systems.

Key selling point(s): Advanced constraint solver for dependencies between versions and components

Key market(s): Generic

Main customer(s): Banking, Cloud, Finance, Software companies

Systematic R&D project(s): DORM

OPAM is now officially used by the OCaml community to distribute their packages

Product Website: www.opam.ocamlpro.com

OCaml PRO

6, allée de la Croix Saint-Pierre
91190 GIF-SUR-YVETTE

www.ocamlpro.com

Contact: Muriel Shan Sei Fan
contact@ocamlpro.com

Annual revenue: 1.0 M€
Head count: 13 employees
Privaciz
Your GDPR SaaS assistant

The Privaciz service provides the DPO (Data Protection Officer) a central repository to manage the European Union GDPR (General Data Protection Regulation) and a collaborative workflow allowing each manager of the organization to be part of the GDPR compliance effort.

The application is SaaS and multilingual.

The application is secured, accessible, responsive (web and mobile) and open. It can be integrated with IT legacy.

Key selling point(s): GDPR, e-service, m-service, Digital, Privacy, accessibility, Web, mobile

Key market(s): Generic, Security

Main customer(s): SOFTEAM

Systematic R&D project(s): PICS2016, PIMI

Product Website: https://en.e-citiz.com/gdpr

SOFTEAM
21 avenue Victor Hugo
75016 PARIS

www.e-citiz.com

Contact: Mr Olivier Nicolas
info@e-citiz.com
Annual revenue: 100 M€
Head count: 1 000 employees
Proxem Software
Turn words into actionable insights

Proxem is a French pioneer in the semantic analysis of Big Data and Digital Transformation.

We offer SaaS software solutions to analyse large volumes of textual data so that our clients can extract relevant information in real time from the web, social media, emails, satisfaction surveys and more. We aggregate all your information onto a multi-source, multi-lingual & multi-topic software solution. Proxem Software offers the best in user-friendly text mining tools, by allowing users to analyse text without having to write any code at all.

Proxem helps several market leaders such as Air Liquide (industry), Buffalo Grill (food) and Carrefour (retail) to make the best decisions in the field of Human Resources, Customer Knowledge and Market Intelligence.

Key selling point(s): Semantic analysis, big data, user-friendly, SaaS, data visualization, text mining, web mining

Key market(s): Generic, Enterprise Information Systems, Marketing, Digital transformation, Innovation, Market research, Customer relationship management, Human Resources, Market Intelligence

Main customer(s): Air Liquide, Total, Auchan, Carrefour, Bouygues Telecom, Decathlon, Buffalo Grill, Enedis...

Systematic R&D project(s): PCU v2, SCRIO
QGen is a qualifiable and tunable code generation and model verification tool for a safe subset of Simulink® and Stateflow® models. It reduces the development and verification costs for safety-critical applications through qualifiable code generation, model verification, and tight integration with AdaCore’s qualifiable simulation and structural coverage analysis tools.

QGen answers one core question: how can I decrease the verification costs when applying model-based design and automatic code generation with the Simulink® and Stateflow® environments? This is achieved by:

- Selecting a safe subset of Simulink® blocks
- Ensuring high-performance and tunable code generation
- Relying on static analysis for upfront detection of potential errors, and
- Providing top-class DO-178B/C, EN 50128 and ISO 26262 qualification material for both the code generator and the model verification tools.

QGen also decreases tool integration costs by integrating smoothly with AdaCore’s qualifiable compilation, simulation and structural coverage analysis products.

Key selling point(s): Qualifiable, model verification, customisable, extendable

Key market(s): Generic, Civil Avionics, Space, Automotive, Rail

Systematic R&D project(s): PROJET P

Product Website: [www.adacore.com/qgen](http://www.adacore.com/qgen)
RTMaps (Real-Time Multi-modal ApplicationS)
Asynchronous high performance platform designed to cope with and overcome multi-sensor challenges

RTMaps is a modular (component-based) platform for rapid development of real-time multi-modal applications. The RTMaps middleware can handle numerous high-bandwidth heterogeneous data streams and provide capabilities for accurate data timestamping, real-time processing and data fusion, as well as recording and real-time playback for offline developments and validation steps of advanced functions. RTMaps is widely used in the following domains: Automotive (development of ADAS and autonomous vehicles), Robotics, Human factors, Datalogging, Advanced HMI developments…

The use of RTMaps allows engineers and researchers to save much time and efforts in the development process, as well as to capitalize on their developments in the form of re-usable components, and to cooperate with the capacity of exchanging components and datasets.

Key selling point(s): Accurate time-stamping of samples, asynchronous and multi-threaded execution engine, recording/playback

Key market(s): Generic

Main customer(s): DCNS, DGA, PSA, Renault, Thales, Valeo...

Systematic R&D project(s): PROTEUS

Competitiveness cluster(s) co-labeling: Aerospace Valley, ViaMéca

INTEMPORA
2, place Jules Gévelot
92130 ISSY-LES-MOULINEAUX

www.intempora.com

Contact: Mr Philippe Lebon
philippe.lebon@intempora.com
RUM BI
Analyze the performance delivered to your real users

Real-User Monitoring BI (RUM BI) is a monitoring solution which provides all-encompassing measurement of the actual performance that your web and mobile users experience.

RUM BI supplies a wealth of indicators which correlate the response times perceived by your users with their navigation page types (URLs), hardware (PC, smartphone, tablet) and software (OS, browser version and type, etc.), internet access provider, and location (city, branch, store or office for intranet, country).

**Key selling point(s):** Complete measurement of the performance experienced by your web and mobile users

**Key market(s):** Generic, Energy, Enterprise Information Systems, Healthcare, Telecommunications, Transportation, Banking, Insurance, Industry, E-commerce, Media, Public Sector…

**Main customer(s):** Allianz, AXA, Barclays, Dior, EDF, Mobistar, Orange, Sanofi, SFR, SNCF, Total, TUI Fly…

**Systematic R&D project(s):** Bottlenet, TIMCO

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**IP-LABEL**
90 Boulevard National
92250 LA GARENNE COLOMBES

[www.ip-label.com](http://www.ip-label.com)

Contact: Mr Benoît Boireau
benoît.boireau@ip-label.com
Annual revenue: 12.5 M€
Head count: 103 employees
Safety Architect
Model-Based Safety Analysis-MBSA

Safety Architect® is a tool for performing risk analysis for complex systems using functional or physical architectures from business modeling tools (SysML or UML, for example). It provides a medium for running FMEA (Failure Mode and Effects Analysis) analyses and automatically producing fault trees for the identified feared events.

Fault Trees can be exported in OpenP-SA format and computed in a Fault tree tool.

Attack trees can also be computed thanks to a “security” view offered by the tool.

Safety Architect is compliant to the requirements of usual safety and security standards such as CEI 61508, EN 5012x, ESARRs, ISO26262, ISO 2700x, etc.

It can be used in all engineering loops, it enlights quickly all critical components and flows and helps to define functional and technical safety concepts. It reduces the safety analysis rework in case of changes.

Key selling point(s): MBSA (Model Based Safety Analysis), system engineering, safety view, interface with SysML and UML tools

Key market(s): Generic, Security

Main customer(s): DCNS, NEXTER

Systematic R&D project(s): BUILD IT SAFE

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ALL4TEC
2-12, rue du Chemin des Femmes
Immeuble Odyssee E
91300 MASSY

www.all4tec.net

Contact: Mrs Frédérique Vallée
frederique.vallee@all4tec.net
Annual revenue: 3.0 M€
Head count: 40 employees
Scilab
Open Source Numerical & Scientific Computation Software

Scilab is the worldwide leader of open source numerical and scientific computation software. Providing a powerful environment for the development of scientific and engineering applications, Scilab contains hundreds of mathematical functions, 2-D and 3-D graphics functions, and a programming environment.

Main Features:
- Mathematics & Simulation
- 2-D & 3-D Visualization
- Optimization
- Statistics
- Control System Design & Analysis
- Signal Processing
- Application Development
- Xcos - Hybrid Dynamic Systems Modeler & Simulator

Scilab supports companies in the implementation of innovative technology solutions. The Scilab software, resulting from the research originally conducted at Inria, has existed for more than twenty years and is downloaded every month by more than 100,000 engineers and scientists from 150 countries. Publisher of the Scilab software, the company also provides businesses with a comprehensive range of consulting, support, training, migration, development services and implementation of applications.

Key selling point(s): Open source, mathematical language, System Modeling, Application development

Key market(s): Generic

Main customer(s): Airbus Defence & Space, ArcelorMittal, CEA, CNES, Dassault Aviation, DGA, EDF, Sanofi, Thales

Systematic R&D project(s): AGESYS, CSDL, MECASIF, OASIS, OPEN HPC, OPEN GPU, RICHELIEU

Competitiveness cluster(s) co-labeling: Cap Digital, i-Trans

Product Website: www.scilab.org

ESI GROUP
99, rue des solets
94513 RUNGIS

www.scilab.io

Contact: Mr Yann Debray
yann.debray@esi-group.com
Annual revenue: 140 M€
Head count: 1,200 employees
Sidetrade has developed a unique AI platform for prospect targeting: based on the semantic analysis of millions of websites and automated segmentation, we have shown amazing results in accuracy (the prospects we detect are pertinent) and completeness (we don’t miss any). We can then help you transform these prospects into customers through our smart engagement module. And finally, we help you grow that revenue by increasing retention, and developing up-sell and cross-sell.

Key selling point(s): BtoB predictive marketing platform, increase retention, develop up-sell & cross-sell

Key market(s): Generic, Enterprise Information Systems, Insurance, Bank, Logistics, Employment, Industry

Main customer(s): BNP Paribas, Expedia, Loxam, Natixis, Schneider Electric

Systematic R&D project(s): DATA PUBLICA, XDATA

Competitiveness cluster(s) co-labeling: Cap Digital

Product Website: www.sidetrade.com

Contact: Mrs Christelle Dhrif
cdhrif@sidetrade.com

Annual revenue: 20 M€
Head count: 220 employees
Simulagora
Collaborative numerical simulation

Simulagora enables you to tap into the power of public clouds to run your studies and easily collaborate with your project partners from a simple Web browser. Start your Web browser, upload your data, choose among the available simulation software and pick your memory/CPU computing resources before clicking the “run computation” button.

The entire process will be traced, hence reproducible and durable. Just share your study with experts to get their help in improving the model and the performances of your computation.

Thanks to Simulagora, you have no hardware or software investment to make to gain access to the unlimited computing and storage capabilities of the cloud, allied to state-of-the-art Simulation Lifecycle Management (SLM) and online collaboration.

Key selling point(s): HPC and SLM without investment
Key market(s): Generic
Main customer(s): GdF/Suez, SNCF
Systematic R&D project(s): OPENHPC, CSDL

LOGILAB
104, boulevard Blanqui
75013 PARIS

www.simulagora.com

Contact: Mr Nicolas Chauvat
nicolas.chauvat@logilab.fr
Annual revenue: 1.7 M€
Head count: 20 employees
Sirius

Open Source technology to easily create custom modeling workbenches dedicated to a specific business domain

Sirius allows you to graphically design complex systems (IT software, business activities, physics, etc.) while keeping the corresponding data consistent (architecture, component properties, etc.).

A custom modeling workbench created with Sirius natively supports your own domain of expertise and comprises a set of editors (diagrams, tables and trees) to create, edit and visualize models in accordance with your vocabulary and your methodology.

Key selling point(s): Complex system modeling, Open Source, extremely flexible

Key market(s): Generic

Main customer(s): Nespresso, BCV, Caisse Desjardins, Pôle Emploi, CAF, CPAM, Leroy Merlin, Decathlon, APHP

Systematic R&D project(s): MERGE, MOVIDA

Product Website: www.eclipse.org/sirius/

OBEO

2, route de la Noue - BP 76
91193 GIF-SUR-YVETTEE

www.obeo.fr

Contact: Mr Etienne Juliot
etienne.juliot@obeo.fr
Annual revenue: 3.06 M€
Head count: 46 employees
**TechViz VR**

3D visualisation solution for instant display of a CAD model in any VR, AR or MR Headset

The ideal display solution for the highest performing VR head-mounted displays. TechViz VR acts like a driver to capture directly a 3D model (Autodesk Navisworks, Alias, Siemens Jack, Dassault Systemes 3DVia, Icem Surf, etc) loaded in the original software TechViz VR.

Key selling point(s): Instant display of CAD models in a HTC Vive, Oculus Rift, Meta, Windows Mixed Reality... no data conversion

Key market(s): Generic, Digital Cities, Enterprise Information Systems, Factory of the Future, Automotive, Aerospace, Research, Manufacturing industries

Main customer(s): PSA, Airbus, Wichita Pfizer, Renault, Volvo, Lockheed Martin, Procter and Gamble, Disney, DCNS, BSH, AGCO

Systematic R&D project(s): COLLAVIZ

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**Submarine model with Catia V5 displayed in a HTC Vive with TechViz VR**

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**TECHVIZ**

63, boulevard Massena
75013 PARIS

[www.techviz.net](http://www.techviz.net)

Contact: Mrs Lucie Deniset
ldeniset@techviz.net

Annual revenue: 3 M€

Head count: 35 employees
TechViz VR Collaboration
VR online platform for collaboration

TechViz VR Collaboration helps improve long-distance teamwork!

Teamwork is key to success and has become a challenge for global firms whose departments are spread all over the world. TechViz Collaborative solution enables real time collaboration between co-workers in different locations, on any VR device (CAVE, head-mounted display, video display walls). Teamwork becomes easier within the corporate structure, especially between departments based in different locations in the world.

Key selling point(s): Instant display of CAD models on several VR system for product collaboration

Key market(s): Generic, Energy, Healthcare, Transportation, Research, Construction, Automotive, Manufacturing industries

Main customer(s): PSA, Airbus, Wichita Pfizer, Renault, Volvo, Lockheed martin, Procter and Gamble, Disney, DCNS, BSH, AGCO

Systematic R&D project(s): COLLAVIZ

Multiple VR systems in collaboration on the same 3D data in real time

TECHVIZ
63, boulevard Massena
75013 PARIS

www.techviz.net

Contact: Mrs Lucie Deniset
ldeniset@techviz.net
Annual revenue: 3 M€
Head count: 35 employees

New in this edition

Product Website: www.techviz.net
TypeRex
Software Development Studio for Data Manipulation

Manipulating data is the corner stone of software programming. TypeRex allows you to easily develop software that will read data in any format, manipulate and transform it efficiently in a structured way, and then output the results to files or databases. With in-depth pattern-matching, transformations have never been so easy to express, and programs so easy to maintain and evolve, thanks to static typing and functional programming. TypeRex extends the OCaml programming language with new development tools for project management, debugging and profiling, and new libraries to build graphical interfaces and read or write many file formats.

TypeRex Memory Profiler can be used to understand the memory behavior of data transforms

Key selling point(s): Focus on expressivity, security and software maintainability, increase of productivity

Key market(s): Generic, Security, Telecommunications, Banking and Finance, Software Engineering

Main customer(s): CEA, Jane Street Capital

Systematic R&D project(s): BWARE, SECURE-OCAML, UCF

OCamlPRO
6, allée de la Croix Saint-Pierre
91190 GIF-SUR-YVETTE

www.ocamlpro.com

Contact: Mr Fabrice Le Fessant
contact@ocamlpro.com

Annual revenue: 1.0 M€
Head count: 13 employees

Product Website: www.typerex.org
The Vortex Intelligent Data Sharing Platform supports real-time data sharing between devices, machines and people for Internet of Things (IoT) applications. Based on the Data Distribution Service (DDS) for Real-Time Systems Standard, the platform consists of the Vortex Device, Vortex Cloud and Vortex Gateway product suites.

Vortex Device implements DDS for server-class platforms, resource limited, mobility and Web (OpenSlice, Lite, café, Web).

Vortex Cloud extends the capabilities of Vortex Device to provide a ubiquitous and universally accessible "Internet Service" for sharing data between Vortex-enabled applications with support for data sharing over a Wide Area Network (WAN).

Vortex Fog provides seamless connectivity of existing DDS-based subsystems to Vortex Cloud and also seamless WAN inter-connectivity of DDS based subsystems.

Vortex Gateway High performance, extensible and configurable protocol gateway framework transparently bridging across communication technologies while adapting format, content and Quality of Service (QoS).

Key selling point(s): Data Centric, OMG Data Distribution standard, communication technologies interoperability

Key market(s): Generic, Telecommunications, Industrial Internet of Things, Big Data, Smart Cities, Smart Energy, smart transportation, aeronaut, simulation

Main customer(s): Air Trafic Management, Atlas, City of Nice, Covidien, John Deere, Nexter, ProRail, Selex, Siemens, Thales

Systematic R&D project(s): BLENDBOX

Product Website: www.prismtech.com/vortex
WAAVES

The first reliable compression image format for any legal or professional usage

WAAVES is the sole image compression format providing to its users compliance in the restitution, compactness of files and versatility of usages. WAAVES covers tracings, 2D images, animated sequences as well as video.

WAAVES is available as an IP (RTL) for foundries, and, as software, for major desktops and mobile environments, for imaging software publishers and stand-alone applications.

Key selling point(s): Multi-resolution (patented), Memory management (patented), reliability, versatility, compactness of files

Key market(s): Generic, Healthcare, Security, Manufacturers of electronic devices, legal archives, legal transmission, eMedicine, eHealth

Main customer(s): Software publishers and Manufacturers of medical devices

Systematic R&D project(s): SMART-EEG, WAAVES GP, WARM

Competitiveness cluster(s) co-labeling: Images et Reseaux, Medicen

CIRA
11, rue Charcot
92800 PUTEAUX

www.waaves.com

Contact: Mr Sylvain Hochberg
sylvain.hochberg@waaves.com
Annual revenue: 300 k€
Head count: 6 employees
Wasga Compiler is a multi-FPGA partitioning software flow for ASIC designers who use FPGA-based systems to verify their design and validate software integration. It automatically partitions large designs onto multiple FPGAs while complying with chip resources and connectivity constraints and the clock frequency required for running software applications.

The Wasga Compiler performs significantly better than other tools, which often fail to achieve an acceptable timing result, even with manual tweaking. It delivers faster results and handles the largest designs (above one billion gates equivalent). It maximizes prototyped system performances, accelerates the prototyping process, and enables one to meet time-to-market challenges.

Key selling point(s): Timing-driven partitioning tool, SoC rapid prototyping, high performance, large capacity, fast execution time

Key market(s): Generic

Main customer(s): ASIC designers for mobile app, network servers, HPC

Systematic R&D project(s): PPR

FLEXRAS TECHNOLOGIES
153, boulevard Anatole - Tour Pleyel
93200 SAINT-DENIS

www.flexras.com

Contact: Mr Hayder Mrabet
hayder.mrabet@flexras.com
Head count: 11 employees
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