

DEFENCE & SECURITY



CAPABILITY APPROACH
DATA INTELLIGENCE

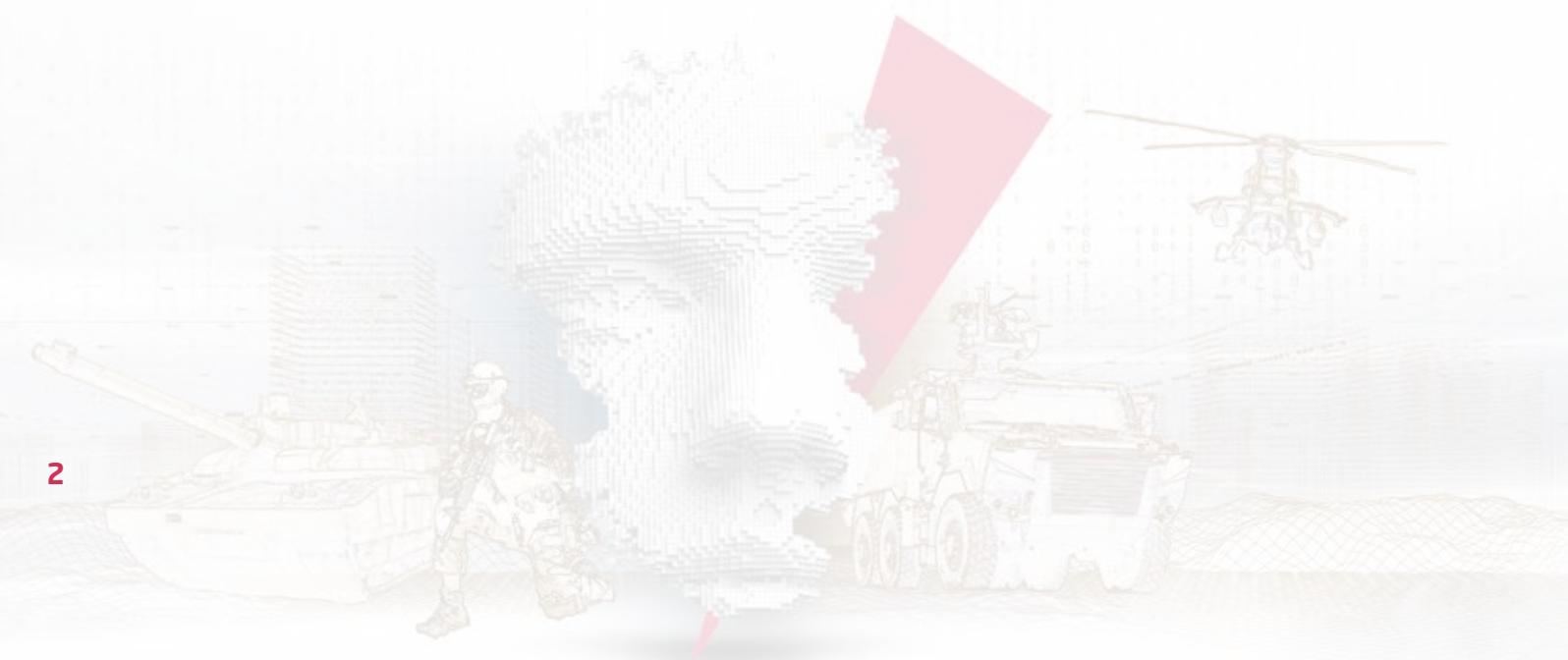
FRENCH EXCELLENCE
IN DEFENCE AND SECURITY

GICAT

The French land defence and security
industry association



GICAT.COM



2

INTRODUCTION

DATA INTELLIGENCE CLUSTER, THE BEST OF BREED FRENCH END-TO-END INTELLIGENCE SOLUTIONS

In an unstable World where geopolitical balances of power are changing, Intelligence, whether of military, territorial, or financial interest, are more than ever at the heart of the strategic reorientation of Governments, whose budgets are growing sharply. Moreover, new technologies related to Big Data, Intelligent Sensors, High Performance Computing, Artificial Intelligence and Social Networks are opening up new possibilities for Intelligence Agencies, especially in weak signals detection, bearing in mind that the volume of data produced by 2025 will be multiplied by five.

As a result, there has been in recent years a plethora of commercial solutions that have made it hard to find the most suitable for the intelligence agencies needs, in terms of intrinsic capabilities or underlying sovereignty problems.

The GICAT Data Intelligence Cluster initiative is a one-stop shop giving access to an independent portfolio of products and services provided by innovative French companies highly specialized in Intelligence and Big Data. Whether it is about consulting, system design, implementation, support, maintenance, or even integration of an existing legacy, the aim is to fit the customer needs with a tailored end-to-end offer.



DATA INTELLIGENCE

COMPONENT BREAKDOWN



CONSULTING & TRAINING

The consulting companies of the Cluster support clients in the development and drafting of tenders according to their constraints and maturity level. In addition, they provide technical training or awareness-raising on good practices.



SENSORS & TELECOMMUNICATIONS

The sensor and telecommunications part is handled by the Cluster members specializing in multi-INT sensors as well as in secure communications.



SOFTWARE & INTEGRATION

Software stacks provided by software specialists, mostly AI-based, are perfectly integrated by the Cluster System Integrators into a secure platform, considering a potential existing legacy. They adapt the GUI to fit to the cluster's client prerogative.

4



COMPUTERS

The Computing Power and Encryption part is provided by the Cluster companies specializing in High Performance Computing, Supercomputers, and encryption solutions.



IMPLEMENTING, TRAINING, OPERATION

Lastly, the pre-production phase, and then the implementation, is carried out under the expertise of specialists, whether it is about provisioning shelters, building a data center, or transferring competences to local teams.

Obviously, depending the country, Governments do not have the same capabilities and budget to put in place a coherent and efficient Intelligence system, or even to modernize an obsolete system. The budget disparities are often substantial. The idea of an incremental « à la carte » approach allows the construction of an initial system, sized according to objective criterias using robust capacities, that can be extended with additional compatible capacities to fit needs over time, in a scalable manner.

INDEX

	PAGES	 Consulting & Training	 Sensors & Telecommunications	 Software & Integration	 Computers	 Implementing, Training, Operation
AIRBUS	6	+	+	+	+	+
ALEPH-NETWORKS	7	+		+		+
ARINC SA	8					+
ATOS	9	+	+	+	+	+
BEARINGPOINT	10	+				
BERTIN IT	11	+		+		
CEIS	12	+				+
CRITICAL BUILDING	13	+				+
DCI	14	+				
DEVERYWARE	15			+		+
DIODON	16		+			
EARTHCUBE	17			+		
ECRIN SYSTEMS	18				+	
ENGIE SOLUTIONS	19		+	+		+
GEO4I	20	+		+		+
JALGOS	21	+		+		+
LINKURIOUS	22			+		
OTHELLO	23	+		+		
PERTIMM DÉVELOPPEMENT	24			+		
PHOTONIS	25		+			
SINEQUA	26			+		
SYSTRAN	27			+		
THALES	28	+	+	+	+	+
VOCAPIA RESEARCH	29			+		
WINTELLIS	30	+				+

AIRBUS



Consulting &
Training



Sensors &
Telecommunications



Software &
Integration



Computers



Implementing,
Training,
Operation

Airbus Defence and Space is recognised as a world leader in geospatial data provision and defence intelligence. It is a global supplier of commercial satellite imagery; the No. 1 European supplier of land command and control solutions as well as a lead supplier of ISR and Air Defence solutions to France, Germany and NATO.

AIRBUS AND MILITARY INTELLIGENCE: 40 YEARS OF HISTORY

END-TO-END INTELLIGENCE SOLUTIONS

Airbus Defence and Space delivers its customers in the defence and security domain tailor-made solutions for the support of strategic and tactical mission requirements as well as for the generation and dissemination of command information for commanders at all levels.

The Airbus systems and end-to-end solutions used by the intelligence services cover the entire intelligence cycle: from multi-sensor data collection (IMINT, ELINT, OSINT, HUMINT, CyberINT and COMINT) to the exploitation of said data through fusion, authentication and analysis - all in the pursuit of supporting its customers in conducting intelligence-enhanced operations.

ACTIONABLE INTELLIGENCE FOR THE CHALLENGES OF TOMORROW!

Airbus Defence and Space is the supplier of choice for C5ISR systems and related services and for satellite imagery. We have unrivalled expertise in satellite imagery acquisition, data processing, fusion, dissemination and intelligence extraction allied to significant command and control capabilities. The company is able to create a comprehensive situational awareness picture.

The solutions developed by Airbus allow for the collection and exploitation of big data, and the timely sharing of the extracted intelligence with all relevant and authorised actors. In this regard, Airbus' expertise in secure communications and cyber security is essential for interoperating intelligence data, capitalising on it, and distributing it securely. Partnerships established with innovative start-ups and SMEs, particularly in the fields of artificial intelligence, machine learning and big data, also guarantee its solutions are at the leading edge of what's possible.



AIRBUS

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Consulting &
Training



Software &
Integration



Implementing,
Training,
Operation

ALEPH-NETWORKS

CYBERSECURITY AND STRATEGIC INTELLIGENCE SOLUTIONS

CYBERSECURITY / DEEP & DARK WEBS

GM Search Dark searches for illegal traces and data on the Deep & Dark webs, maps out these areas, identifies influence clusters, and searches for “noteworthy information” (bank card numbers, bitcoin accounts, social media accounts, stolen emails and passwords, etc.). It identifies ongoing data leaks from the back office, front office, or communication tools and monitors the company’s strategic assets (people, personal data, confidential documents, etc.) to detect information theft, malicious actions, geopolitical or VIP’s risks, and so on.

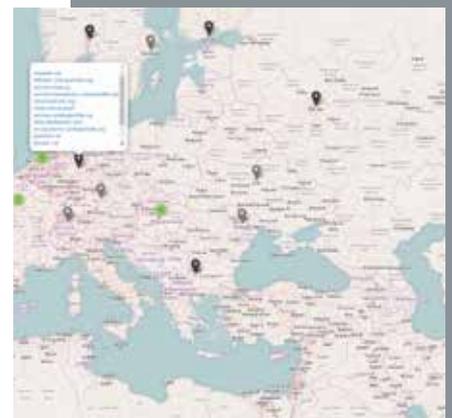
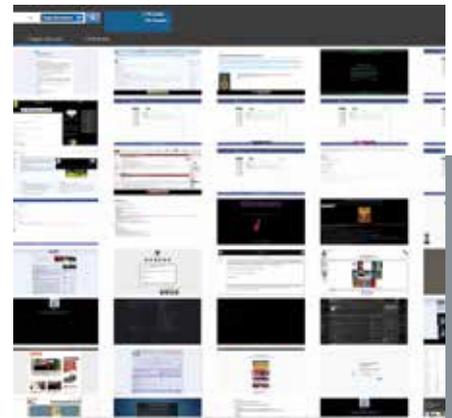
STRATEGIC INTELLIGENCE / CLEAR WEB ON PREMISE

GM Search Clear is more than a surveillance tool. It is a flexible search and analytics engine that creates a personalised search area that can include any Clear web source the user chooses. This tool can identify new suppliers, partners, or competitors; reveal high-risk interactions in a company, brand, or individual’s environment; and map out an information environment (competitive, thematic, strategic), clusters of influence, and product or data flow networks.

GM Search Clear allows users to build their personalised search and strategic analysis tool: sourcing and infosphere modifications adapted to evolving needs and contexts, choice of scoring algorithms, configuration of analysis and data presentation tools, and data exporting.

We offer a range of services around our search engines: our specialised Cyber / Intelligence consultants monitor and analyse large volumes of data in the most relevant, personalised, and hidden areas of the web. They look for weak signals and anything that helps interpret, influence, and protect the professional environment.

Using this technology, Aleph developed two specialised search and analytics engines that are non-intrusive and API-independent. These engines feature a machine learning module to provide intelligent and industrial-scale sourcing, an image search engine, tools for in-depth analysis of multimedia and multilingual open sources, and different ways to visualise the results - including graphical format.



ALEPH-NETWORKS

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ARINC SA



The ARINC SA group, founded in 2007, brings together centers of expertise in high technology, in France and abroad, such as the security of States, people, goods and data, electronic countermeasures, transmission networks, and the design of digital mapping or intelligence coordination platforms.

CLUSTER SOLUTIONS AGGREGATOR FOR EXPORT

CONTRIBUTING TO THE DEVELOPMENT OF HIGH-TECH SMES

The ARINC SA group, formed in 2007, leverages several areas of expertise that include:

- Security of States, people, property and data;
- Civilian and military electronic countermeasures;
- Transmission networks (GSM/GPRS/3G, SATELLITE, RADIO);
- Design and Implementation of civil and military digital mapping solutions;
- Assistance with the development of aeronautical business structures (creation, redesign and support of airline companies);
- Takeover and Development of aeronautical operations (training and specialized technical support);
- Development and Implementation of turn-key solutions for Counterterrorism/Intelligence Coordination Platforms.

MULTIPLE OPERATIONAL COMPETENCIES

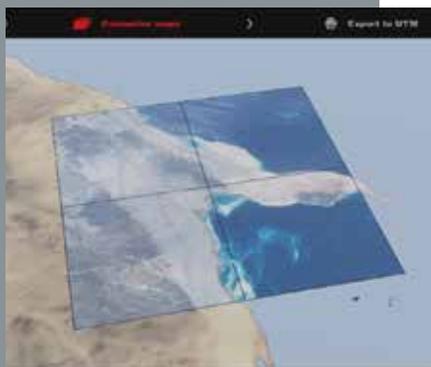
- Management Consulting and Monitoring of commercial contracts in France and abroad.
- Support for development strategies for high-tech SMEs.
- Implementation and Management of complex industrial projects.
- Implementation and Integration of multiple electronic warfare packages and related equipment sales.
- Technical assistance and Maintenance support.
- Since 2006, suppliers of RCIED jammers for the France's defence procurement agency, the Direction Générale de l'Armement (DGA).
- Development and Distribution of the ARVAK (isothermal cover) system.
- Design and Implementation of digital cartographic solutions.

Customer driven solutions which produce relevant commercial and technical answers, solutions that are fast, complete and designed to meet the requests and needs of our customers and end users.

Our teams of specialists adopt qualitative, standardized and proven approaches for:

- Collecting, identifying, and qualifying needs;
- Establishing a response adapted to the specifications;
- Supporting the design, development, integration and deployment of operational, prototyped or serialized systems;
- Implementing systems in specific and constrained environments;
- Ensuring control of performance, costs and deadlines;
- Establishing and adapting the monitoring and maintenance of equipment to assure proper operational readiness.

The ARINC SA group relies on the values and principles of the AGILE methods to establish privileged relationships with its customers and suppliers. User satisfaction remains our main objective.



ARINC SA

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Consulting &
Training



Sensors &
Telecommunications



Software &
Integration



Computers



Implementing,
Training,
Operation

SUPPORTING OUR CLIENTS IN THEIR DIGITAL AMBITIONS

ARTIFICIAL INTELLIGENCE

Scalable, flexible and modular, Codex for Intelligence is an end-to-end big data business solution dedicated to data processing and analysis needs. Based on multi-source and multi-format data, this offer allows analysts, operators and supervisors to effectively analyze information and quickly produce actionable reports and alerts.

Codex AI Suite is a software suite providing tools to easily define, develop and deploy artificial intelligence applications. Codex AI Suite is designed for applications requiring powerful machine learning and deep learning functions.

PROCESSING POWER

Designed and manufactured in France, BullSequana is a complete range of IT servers ranging from supercomputers to local 'edge computing' solutions. BullSequana servers complement traditional computing capabilities with GPUs for AI and Machine Learning purposes. They accelerate Data Lake deployments and evolve as needed. In-Memory combines availability and maintenance simplicity with high performance for large databases.

CRITICAL COMMUNICATIONS

The Atos LTE range ensures the security and resilience of critical communications, in order to protect confidential exchanges. Hoox smartphones encrypt voice, data and content, and the Air-Lynx range enables the deployment of private and confidential 4G/5G networks.

CYBERSECURITY

Including products and services, Atos' cybersecurity offer provides data encryption through its Trustway solutions of hardware security modules (HSM).

ATOS

Atos is an international leader in digital transformation with over 110,000 employees in 73 countries and a turnover of nearly €13 billion. Atos is a player in the entire digital information processing chain for data intelligence. Atos' offer combines sovereign hardware and software technologies with an ecosystem of partners.



9



Atos

ATOS

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BEARINGPOINT



Consulting &
Training

BearingPoint delivers management and technology consulting with a difference. We drive change in our clients' businesses by creating customized solutions on a personal basis.

WORLDWIDE MANAGEMENT AND TECHNOLOGY CONSULTING FIRM

COMMITMENT, TEAMING, STEWARDSHIP

With operations in 22 countries and around 4,500 employees, BearingPoint is one of the largest management consultancies in Europe. Our roots go back over 100 years to the early days of two big names in professional services: Arthur Andersen and KPMG. We apply our management skills, technological flair and, most of all, our ability to harness our strategic insights when solving our clients' individual challenges. This adaptive approach is at the heart of our culture. We challenge, support and engage with you to create value through successful transformation. The excellence of our people, their entrepreneurship and their ability to work in teams are key to our high levels of client satisfaction and sustained relationship.

PASSION, EXCELLENCE

- **STRATEGY:** Define a data policy taking into account the digital strategy of the organization.
- **GOVERNANCE:** Define the governance to enable process mapping and facilitate the maintenance of quality data.
- **ETHICS:** Pre-qualify to ensure the aspect of digital/data ethics is taken into consideration.
- **IA INTELLIGIBILITY:** Combine white and black-boxing to gain acceptance of metadata exchange standards.
- **DATA SCIENCE:** Define and industrialize predictive or prescriptive statistic models.
- **HYPERCUBE:** A proprietary solution enabling the transformation of data and its exploitability via an algorithm.
- **METRICS:** Define measurable objectives based on the digital transformation and the urbanization of the information systems.
- **OPERATING MODELS:** Build efficient teams with our partners, companies and startups, at both business and technical level.
- **DATAOPS:** Ensure the automatization of data flows to make exploitable the data by the experts.
- **CYBERSECURITY:** Define an operational model of cybersecurity organization, risk management, compliance.



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BERTIN IT

CYBER SECURITY · CYBER INTELLIGENCE · SPEECH INTELLIGENCE

SECURING NETWORK AND SENSITIVE DATA

Bertin IT offers a cross domain solution appliance CrossinG®, to secure inter-network exchanges, which allows to control and secure the interconnection between networks with different levels of sensitivity. CrossinG® is a high-performance, ergonomic, single- or two-way security appliance. Its high control, filtering and isolation properties ensures the integrity and confidentiality of exchanges in critical environments such as Critical Infrastructure Operators and Essential Service Providers. (ANSSI certified solution).

CYBER INTELLIGENCE AND SPEECH INTELLIGENCE

Bertin IT can anticipate threats targeting states and organizations through MediaCentric®, its cyber intelligence platform. This solution extracts relevant information to global intelligence for Homeland Security, digital investigation, crisis management and critical infrastructure protection. Through a 24/7 collection of millions of multilingual web, press and multimedia sources, as well as its advanced analytical functions, AMI EI® platform provides a global informational overview for decision making in the geopolitical and strategic fields.

These two platforms are also used by government entities thanks to their high capacity for multi-source data collection (clear/deep/darkweb).

With its MediaSpeech® voice transcription solution, Bertin IT is present in the fields of media monitoring, banking compliance and customer intelligence. Through the words detection, key phrases and the identification of languages and speakers, it also provides alerts on content related to targets and risky elements for legal and strategic purposes.

Part of the CNIM Group, Bertin IT is an agile provider and integrator of software solutions ensuring information systems security and the advanced processing of digital and voice data. Bertin IT has 120 employees, nearly half of whom work in R&D, in France, the UK and Germany. With more than 15 years' collaboration with the French Ministry of Defense, Bertin IT is a key player in cyber intelligence and security.



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CEIS



CEIS is a strategic and risk management consultancy founded in 1997, specialised in sectors of national sovereignty. CEIS supports its clients in their development projects through a dual approach based on economic intelligence and strategic analysis.

ANALYSE, TRAIN, SUPPORT, SECURE

ANALYSE THE THREAT AND ANTICIPATE ITS DEVELOPMENT

We support our clients across the public and private sectors to anticipate the evolution of threats, whether internal or external, through diagnostics research and studies. In this context, our work focuses, for example, on ways to reduce the negative impact of cognitive biases on the work of intelligence analysts (RECOBIA), on assessing the consequences of new technological uses for security and intelligence (NUTS), on monitoring circumvention or diversion of technologies strategies by adversaries (C-UAS) and on the prevention of violent radicalisation (CRIME, SAFIRE, TETRIS). As such, we are asked to contribute to the production of technical-operational studies alongside our private-sector customers.

PROPOSE AND IMPLEMENT CORRECTIVE MEASURES

We assist our clients in developing roadmaps to secure their organisation and attain their strategic objectives, in particular in the event of a crisis (PREDICT) and during sensitive transactions (M&A, LBO). In this context, we prepare the staff involved through the organisation of exercises (EUROCYBEX), training (OSINT Training) and ad hoc work sessions. During more active phases, we advise our customers on available options, ensuring red teaming. We also advise them on the choice of intelligence tools thanks to our knowledge of available solutions as well as their business needs (VIRTUOSO). Through its focus on innovation and new technologies, CEIS supports its clients in the control of their information environment, in a context of digital transformation combining cyber and intelligence. To that end, we conduct audits and proactive actions (cyber threat intelligence), define strategies and security policies and stand by our customers' side in the event of a crisis, including via BLUECYFORCE, the first professional cyberdefence training organisation in France.



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CRITICAL BUILDING

EXPERTISE IN THE RELIABILITY OF SENSITIVE TECHNICAL ENVIRONMENT INFRASTRUCTURES

PROJECT MANAGEMENT ASSISTANCE:

Programming, Design, Monitoring, Control

Whether it is a mobile OPEX infrastructure (Container IT) or a sensitive technical site (Data Center, Command Center...), CRITICAL BUILDING engineers support their customers in:

- The precise definition of their needs (power, reliability of the technical chains, fault tolerance, eco-efficiency...);
- The design of the Project;
- Consultation with Market participants;
- Monitoring and control of implementation.

EXPERTISE, AUDIT:

The total independence and neutrality of our consultants combined with their extensive experience allows CRITICAL BUILDING to operate on specialized expertise missions (capacity analysis, reliability of technical chains...) as well as on audit missions (control, prior to modifications, following a breakdown or shutdown of the operation...).

CRITICAL BUILDING participates in the CRITICAL DATA / DEEP DATA Project relating to the sovereign and eco-friendly storage of data underground.

Critical Building is an independent French company leader in its «Data Centers» segment, thanks to numerous prestigious achievements combining proven technologies with eco-efficient innovations. The physical infrastructure is the indispensable foundation for the proper processing of data and communications on which Operations must be able to rely!



Critical Building
Datacenter consultants ●

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DCI



Consulting &
Training

Created in 1972, Defence Conseil International (DCI) is a service provider, with the French State as reference shareholder. Its mission is to transfer French armed forces know-how to France-friendly countries. It offers customized solutions to develop Data Intelligence capabilities. DCI has more than 100 customer countries and 7 permanent offices abroad.

THE REFERENCE OPERATOR FOR THE FRENCH MINISTRY FOR ARMED FORCES

CUSTOMISED COURSES TO MEET YOUR NEEDS

DCI is the reference operator of the Ministry of the Armed Forces for the transfer of French military know-how internationally. For 45 years, DCI has been active across the entire spectrum of defense and security. DCI can boast the «French Armies training» label. DCI offers tailor-made consulting, training and assistance services. DCI is headquartered in Paris and has several sites throughout France. It is also established abroad, notably in the Middle East with Kuwait, United Arab Emirates, Saudi Arabia and Qatar and in Asia with Malaysia and Singapore. DCI is continuing its international deployment with innovative, high value-added services by developing new cooperation agreements.

INTELLIGENCE AND CYBER DEFENCE TRAINING

DCI offers training in the various fields of intelligence (IMINT, COMINT, OSINT,...), such as the exploitation of space images, open source processing, UAV piloting, but also advice on the organization or implementation of adapted technical intelligence tools.

To meet the increased demand for training in the management of cyberattacks, DCI is also strengthening its offer by offering a range of training courses:

- Cyber technical training, upstream of the exercises, allowing increase in proficiency, the mastery of tools and methods;
- Cyber operational exercises that improve the efficiency of internal and external cooperation, thus optimizing organizations, interfaces and the effectiveness of responses in terms of time and quality.

All trainings and exercises are based on a cyber-range, which simulates the customer's information system and a wide variety of cyberattacks.

14



DCI

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Software &
Integration



Implementing,
Training,
Operation

DEVERYWARE

BIG DATA INVESTIGATION FOR LAW ENFORCEMENT OFFICERS AND ANALYSTS

SOCIAL MEDIA INTELLIGENCE

Intelligence agencies face increasing requirements to monitor and analyze social media, notably to mitigate digital influence campaigns or to identify instigators of fake news. Communications intelligence also requires increasingly complex correlation of information sources.

The Detection & Investigation solution by Oak Branch combines the data processing capabilities of analytical platforms (such as SAS® or Dataiku) and the operational intelligence expertise of our field analysts.

GEOLOCATION ANALYTICS FOR LAW ENFORCEMENT

Criminal investigation teams need to cross-reference growing amounts of geolocation and relational data, whether from smartphones tracking, call detail records, interception of communications or digital evidence seized during house searches.

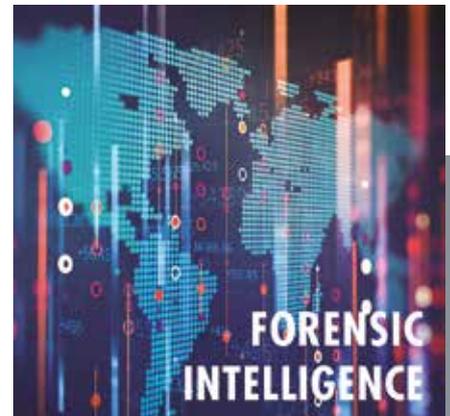
The DeveryAnalytics platform allows investigators to import and correlate all of these data sources and quickly detect matches, such as physical encounters, contacts, or behaviour patterns. It helps law enforcement teams to unearth indirect network connections, highlight characteristics typical of organized crime groups, and therefore to boost complex investigations.

DIGITAL FORENSIC INTELLIGENCE

Seizures of IT equipment (phones, computers, USB storage, cloud drives...) provide access to huge amounts of data, once forensic extraction has been performed. But that data still needs to be actually searched through, and it can prove challenging if time is of the essence and computer forensics analyst teams are already understaffed.

Forensic Fusion is a dedicated workflow that parallelizes forensic extractions and feeds all recovered data to an analytics platform. Its analytic framework can correlate pieces of information from each of the seized materials automatically, and deliver both material facts and clues in record time.

Deveryware is a French company (turnover 32M €, headcount 140) providing digital investigation solutions for States and businesses. Service provider of the French government for judicial exploitation of geolocation data, the Deveryware group is also a specialist in digital forensics tools (Tracip) and big data analytics (Oak Branch).



15

DEVERYWARE
Committed to Better Security

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DIODON



Sensors &
Telecommunications

DIODON Drone Technology is a Toulouse-based start-up developing all-terrain micro-drones for reconnaissance and surveillance in rough environments. For these missions, the company relies on a drone linked to an inflatable structure making the DIODONs easily transportable, especially rugged and amphibious, thus the ideal solution for an unrestricted use.

INFLATABLE MICRO-DRONES FOR RECONNAISSANCE IN ROUGH ENVIRONMENTS

OUR INFLATABLE TECHNOLOGY

- Deflated, the structure is foldable, making the drone easy to transport along with the rest of the operator's equipment.
- Inflated, the structure absorbs shocks making the drones almost indestructible and able to land on any surface.
- The inflatable structure also enables the DIODONs to float which, paired with a completely waterproof electronics and motorisation, makes them amphibious and deployable in maritime environment with the possibility of landing on water.

These technical characteristics establish the DIODONs as the ideal all-terrain aerial vehicle.

CONTACT RECONNAISSANCE DRONE

To answer the increasing need of the armed forces to get equipped with reliable and rugged image intelligence (IMINT) tools, DIODON Drone Technology develops and manufactures the DIODON SP20 and the DIODON HP30: the first all-terrain and inflatable micro-drones. Thanks to this range of solutions, DIODON can cover a large panel of missions.

Moreover, in order to carry-out missions requiring more complex technology, DIODON Drone Technology is proposing a bigger drone, the DIODON MP40, to integrate more specialised captors up to 2kg. This model enables a real projection of intelligence tools on all fields of operation.



DIODON DRONE TECHNOLOGY

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Software &
Integration

EARTHCUBE

ARTIFICIAL INTELLIGENCE SOLUTIONS FOR MISSION-CRITICAL APPLICATIONS

APPLYING AI TO SUPPORT ANALYSTS' TRADECRAFT

Earthcube has developed an integrated service to monitor sites of interest based on the main current conflicts.

The company's goal is to facilitate the analysts' jobs, by removing the repetitive and time-consuming tasks from their daily activities.

In order to do so, Earthcube provides them with a systematic and quantitative analysis of various data flows such as satellite imagery but also marine and aerial flows, to enable the analysts to better understand the evolution of a zone, and to be alerted in case of major change. Thanks to AI, analysts leverage the technological support to focus on higher-value tasks and extract the intelligence related to information contained in the input data. Human intelligence remains a critical and central role in this augmented intelligence cycle.

MONITORING THE WIDEST AND/OR ISOLATED AREAS

Earthcube has developed a monitoring solution dedicated to critical areas for industrial or environmental purposes. The company's goal is to enable the monitoring of the widest and hardest to access areas. Thanks to AI, Earthcube provides its customers with a solution to automate the analysis of georeferenced images, and more globally geospatial data, to track the evolution of spread-out zones, assess the damages of catastrophes, or even monitor construction sites.

Earthcube develops AI solutions based on an automated analysis of GEOINT workflows. Combining state-of-the-art technics in both Machine Learning and Computer Vision, Earthcube aggregates information from multi sources, such as imagery, or open source data feeds, to provide its clients with strategic knowledge regarding critical sites of interest, thus enabling faster interventions for a safer environment.



17

**EARTH
CUBE** 

EARTHCUBE

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ECRIN SYSTEMS



Computers

Over the last 40 years, ECRIN Systems has built its development around three main activities to become one of the major embedded electronics players in Europe and around the world: Manufacturer of rugged and industrial COTS computers for Mil/Aero and Industry with MIL-STD-810 and DO-160 EQT passed; Subcontracting and System Integrator of Design and Build to Specifications; Industrial and trusted servers for cyber, big data, Edge computing, IIoT and communications

YOUR LEADING TRUSTED PARTNER FOR EMBEDDED

PROXIMITY, INNOVATION, EXCELLENCE, COMMITMENT

Proximity: Placing customer at the center of our concerns, we are totally committed in the success of your project. SME: human scale reactive company Dedicated responsive team to your project Worldwide support and cooperation agreements to serve our prime contractors and customers.

Innovation: With a design department team of engineers and technicians, innovation is at the core of ECRIN Systems' DNA, which devotes each year 5% of its turnover in R&D.

Excellence: Putting quality at the heart of our value system, we excel in offering you optimum continuity of operation and high return on investment to improve your efficiency and productivity. Management system based on quality processes: ECRIN Systems is ISO 9001:2015 qualified Environmental Qualification and Compliance: MIL-STD-810, MIL-STD-461, DO-160, GAM EG 13, BV marine, CE, CB, FCC, UL...

Commitment: Faithful in business, we seal trust agreements with our customers and partners to strengthen our relationship.

18



ECRIN SYSTEMS
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Sensors &
Telecommunications



Software &
Integration



Implementing,
Training,
Operation

ENGIE SOLUTIONS

ONE GOAL : TO CAPTURE, LOCATE, IDENTIFY, ENHANCE SIGINT.

COMINT, A SPECIFIC KNOW-HOW OF ENGIE SOLUTIONS

Through the expertise «Defense» of its 1,100 employees, ENGIE Solutions operates throughout the life cycle of its equipment, from design to acceptance test and performs as a service the required line support. Within ENGIE Solutions, Ineo Defense designs and develops solutions in the frequency bands used for monitoring communications and electronic support networks. The solution designed for the customer is integrated into a platform (transportable shelter, vehicle, under wing payload, individual pack) suitable for an operational use in electronic warfare or special operations and can be under the technical support of Ineo defense.

A MODULAR PLATFORM FOR AIR-SEA-LAND WARFARE

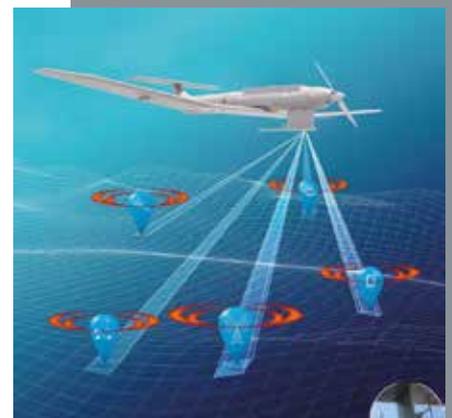
The information flows exchanged by radiocommunication are crucial for surveillance, alert and electronic intelligence missions. With radiocommunication technologies always more complex, increased efficiency in COMINT systems is necessary to capture, locate, identify, intercept and enhance the operational value of intelligence. With CHISTERA Solution, all emissions are detected, gonio-measured and identified several times per second. Interesting transmitters are recorded, demodulated and decoded. Using extra wide band sensors and massive information processing algorithms, the operator can receive a global vision of the tactical radio environment associated with monitoring and characterizing the emissions present. This function allows the updating in real time of a tactical report of the electromagnetic activity.

In order to provide a clear and exploitable situation to the tactical command, the output products of CHISTERA include:

- Electromagnetic situation reports;
- Alert messages according to the detection and identification of threats;
- COMINT and interception reports.

ENGIE Solutions* develops multi-business and multi-service offers that involve a set of integrated solutions. Our customers are looking for technological and human resources to guarantee the successful completion of their missions by optimizing their operational resources.

** Since 1st January 2020, ENGIE Axima, ENGIE Ineo and ENDEL ENGIE have pooled their expertise and become ENGIE Solutions.*



ENGIE
Solutions

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GEO4I



Founded in 2014, Geo4i is a French company specialized in the processing and exploitation of geospatial information in the fields of Defense, Security and Safety.

GEO-INTELLIGENCE, OUR AREA OF EXPERTISE

GEO4I'S ACTIVITY IS BASED ON 5 AREAS

The supply of space imagery: offering of the best images to its customers through a partnership with the main image suppliers on the world market.

Consulting: technology watch, software, systems audit, project management assistance and customer support.

Training : from initiation to expertise in France and abroad: geographic and geomatic information, imagery (optical, infrared and radar), geospatial intelligence.

Production: production of IMINT and GEOINT intelligence files.

Software development: dedicated to operation, analysis, automatic processing, identification.

GEOSPACE

Geo4i has developed a geospatial platform GEOSPACE to ensure its IMINT and GEOINT productions. GEOSPACE is a collaborative platform dedicated to the integration, exploitation, visualization, analysis and sharing of big geolocalized and temporal big data coming from multiple sources. Different tools have been developed.

- **Help4i:** help in equipment identification.
- **Site4i:** vectorization of elements of interest in the platform. Storage and sharing of analyzes.
- **Automatic processing:** detection of human activity (coherence map), automatic detection of active fires...
- **Artificial intelligence:** research and development.



Geo4i
Geospatial for intelligence

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JALGOS

We allow teams and companies from all sectors to become « AI-driven », through our dedicated algorithmic products, our data strategy service offers, and our high-end R&D. Our approach is guided through our « trustable AI » method.

DESIGNING CUSTOM MADE ARTIFICIAL INTELLIGENCE SOLUTIONS

SCIENTIFIC EXCELLENCE FOR BUSINESS

Jalgos is a company that specializes in the design and creation of custom AI solutions, from the definition of an optimal AI and data strategy to the industrialization of algorithmic software.

We design, develop and deploy AI solutions in various sectors, such as retail logistic optimization, energy transport optimization, cybersecurity pertaining to the detection of anomalies in banking exchanges, prediction of sales, foot traffic, rare events, disasters - and decision support through advanced and intuitive visualizations of complex data. We place critical importance on both the scientific excellence of our data work and the relevance of its business impact.

OUR SOLUTIONS: UKPIK AND STELLA

UKPIK is a real-time video analysis solution applied to security and protection.

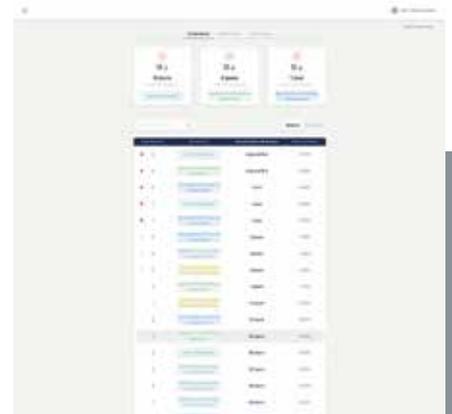
It labels video streams coming from all types and technologies of cameras in real time- infrared, thermal, visible, and of all qualities, drones - allowing to automate remote surveillance tasks such as intrusion detection.

With its proprietary algorithmic technology designed and developed by Jalgos, UKPIK provides very high reliability, real-time processing, and low computing power consumption. Guided learning allows UKPIK to specialize in specific cases and constraints.

STELLA is a multi-domain predictive maintenance solution.

It anticipates general events such as mechanical failures and critical occurrences, diagnoses the state of monitored machines and controls their maintenance.

It can be adapted to any type of infrastructure and is easily integrated into existing maintenance processes. It has been previously applied to the maintenance of a fleet of trains as well as computer servers.



JALGOS

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LINKURIOUS



Software &
Integration

Linkurious helps government agencies and Global 2000 companies detect and investigate sophisticated threats faster. Data-driven investigators at the French Ministry of Economy and Finance, Zurich Insurance or the Attorney General of New York State use Linkurious Enterprise to find insights otherwise hidden in complex connected data for anti-terrorism, anti-fraud or cyber-security.

ON-PREMISE GRAPH INTELLIGENCE PLATFORM FOR THREATS DETECTION AND INVESTIGATION

WHY LINKURIOUS ENTERPRISE?

Fighting threats, from fraud, money-laundering, criminal activities and cyber-attacks has become a data-driven job. But scattered information and massive datasets make traditional detection and investigation approaches obsolete. Organizations need a faster, simpler and more effective solution to address those threats. Linkurious helps government agencies and Global 2000 companies, from the French Ministry of Finances, Zurich Insurance and the New York State Attorney General, find insights hidden in complex connected data thanks to an intuitive graph intelligence platform.

MAKING YOUR DATA YOUR BEST ASSET AGAINST THREATS

Linkurious Enterprise uses graph technology and data visualization to turn complex datasets into interactive visual networks. The platform connects to your data sources and enables investigators to seamlessly navigate across billions of entities and relationships.

The result is a new ability to detect suspicious relationships without juggling with queries or tables.



22



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PREDICTIVE BEHAVIORAL SCIENCES

TAKE THE RIGHT DECISION

When it comes to wiretapping. When it comes to surveillance. When it even comes to waging war at distance, never has the Defense world had access to as many technologies as today.

But there is a paradox: in the Intelligence world, in its most basic form, when it merely comes down to forming an opinion on the very words that come out of the mouth of another person, the situation has not changed in centuries. The agent in charge of evaluating the sincerity of a key individual will end up taking his decision based on only one single element: his intuition. And take a major risk: making a mistake.

THE CONFLUENCE OF BEHAVIORAL SCIENCES AND AI

Intelligence, anti-terrorism, strategic interviews: how can you take the right decisions, when it is the human factor that can be key to the conduct of your activities?

OTHELLO offers a unique solution, gathering the best of three worlds together: social psychology, behavioral measurement technology, Big Data.

HEXAGONE Behavioral Artificial Intelligence technology

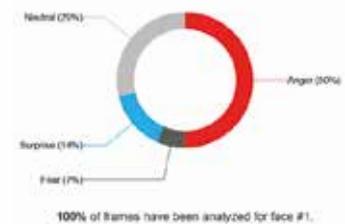
- Analysis of facial expressions of emotions.
- Analysis of vocal expressions of emotions.
- NLP semantic analysis.
- Gesture analysis.
- Object recognition.
- Detection of abnormal / suspicious behaviors.
- Development of tailor-made decision models.

A training offer for professionals, without the use of technology, based on the latest research in behavioral sciences.

OTHELLO

Our Artificial Intelligence solution, HEXAGONE, brings together the best of three worlds to help you make the right decisions: social psychology, behavior measurement technology, Big Data. Anti-terrorism, intelligence, radicalization: for all your key decisions, OTHELLO provides you with the latest advances in behavioral sciences and technology.

Facial expressions: all emotions



Probability that the witness was honest

32 % probability



OTHELLO

OTHELLO / HEXAGONE

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PERTIMM DÉVELOPPEMENT



Software &
Integration

Pertimm Développement offers a development platform for intelligent assistants (voice and chatbots) based on Open Source software and optimized for the French language. These assistants can be deployed in complete security on the various premises of the army.

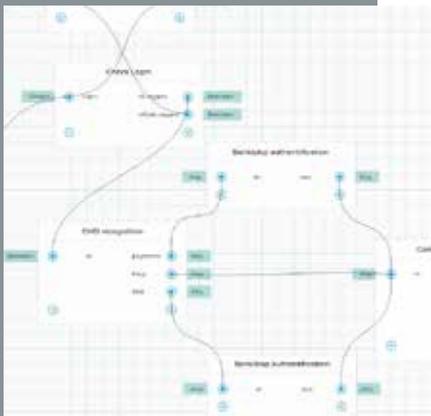
DESIGNER OF INTELLIGENT VOICE ASSISTANTS FOR THE ARMY

DESIGN, ASSIST, PROTECT

Pertimm develops intelligent assistants (voice and chatbots) based on an open source platform that can be installed on site. These intelligent assistants can be designed for all activities where assistance is required (maintenance, soldier support, medical support, etc.). Faced with the multiplication of threats and the limitation of manpower, the ability to deploy intelligent assistant solutions that are adapted, scalable and effective over time is a critical necessity in the military field.

ARTIFICIAL INTELLIGENCE, VOICE ASSISTANTS, CHATBOTS

- Voice assistants for maintenance and repair of hardware and software systems.
- Voice assistants and chatbots to support the soldiers.
- Voice assistants and chatbots to support supply chain engineers.
- Voice assistants and chatbots for medical support.
- Support assistance in the field of interrogation and use of complex devices, through voice or chat interfaces.
- Voice assistants for the remote control of complex systems.



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Sensors &
Telecommunications

PHOTONIS

DIGITAL VISION

ULTRA-SENSITIVE IMAGING SOLUTIONS

Photonis is experienced in innovating, manufacturing, and selling photo sensor technologies for more than 80 years and has always been preferred partner to highly demanding users.

Photonis solutions are highly qualified in extreme demanding environments, such as nuclear safety, night vision, electronic warfare and in scientific and medical environments (e.g. Special Ops, Hubble Telescope and Laser Megajoule).

Photonis offers a variety of solutions to feed data intelligence systems. They are integrated in a broad range of applications based on technologies as day-through-night CMOS imaging, EBCMOS (Electron Bombarded CMOS) or ICMOS (Intensified CMOS) technologies for specific applications, even providing color at night. These technologies are already equipping high performance applications like: multi-spectral payloads for indoor and outdoor drones, connected handheld equipments or even long range imaging systems.

FOR DEMANDING APPLICATIONS

Multi-sensing payloads for drones (indoor & outdoor)

In partnership with gimbal manufacturers Photonis developed ultra-compact payloads equipped with low light cameras, multi-spectral cameras (low light/thermal/swir). These payloads provide operators excellent vision to execute operations at night, even in rain or through smoke.

Imaging cores for handhelds

24/7 imaging (day to night) or multispectral imaging cores are integrated into different network connected handheld equipment. They provide digitally fused visible day and low light with a high definition thermal channel and enable easy detection and heat decamouflaging (human body, fire...). Being network connected, visible information can directly be uploaded into data collection systems, acting like remote sensors.

Portable long range imaging

High sensitivity of Photonis technology provides a clear superiority to all long range systems and is embedded for example in SYT systems and capture live video situations up to 15-20km. These systems are remotely operated.

PHOTONIS Digital Vision is the world leader in the design and manufacturing of state-of-the-art Day-to-Night Digital Vision as well as colour at night for military, space and commercial applications.



25

PHOTONIS

PHOTONIS TECHNOLOGIES
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SINEQUA



Software &
Integration

To cope with the challenge of the current info explosion, large organizations must:

- Develop a strategy to unify structured and unstructured data;
- Combine NLP and Machine Learning at scale to surface the untapped potential of the available documents;
- Develop cultural dynamics to better value the extracted insights, by creating a single, secure and unified information access point.

INTELLIGENT SEARCH PLATFORM

SEMANTIC SEARCH AND TEXT MINING AT SCALE

Unstructured data analysis is key to improve homeland security, criminal investigations and fraud detection. To identify and anticipate the threats, defense and security agencies must improve their ability to surface, mine and analyze vast amount of data from various data sources, to:

- Provide an automated, unified and up-to-date view of all available data from many sources;
- Manage various document formats and natural languages;
- Identify entities, facts and relations from the native sentences thanks to advanced text mining techniques;
- Proactively visualize and reveal the potential risks and threats;
- Help knowledge workers better analyze a situation and surface relevant insights;
- Link and correlate heterogeneous data sources to improve investigation and decision making.

SOLUTION OVERVIEW

A world leader according to major analysts Gartner («Magic Quadrant for Insight Engines») and Forrester («Cognitive Search wave»), Sinequa is a software vendor providing an AI-Powered Search & Analytics platform for Global 2000 companies and government agencies.

Sinequa platform combines different technologies such as:

- Broad connectivity with help from 200+ smart connectors and 350+ document converters;
- Semantic search engine to understand tens of natural languages;
- Scalability and performances to cope with millions and even billions of documents;
- Tens of named entity extractions and customizable text mining capabilities;
- Content classification at scale thanks to machine learning and deep learning;
- Framework to design user interfaces to various users like analysts, data scientists, lawyers, police officers and by extension any knowledge worker;
- Strong security management.

Some key Sinequa clients: French Department of Defense, European Commission, Ministry of finance, Airbus, Total, Siemens, Alstom, NASA, Northrop Grumman.



SINEQUA
Become Information-Driven

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Software &
Integration

INTELLIGENT LANGUAGE TECHNOLOGIES FOR THE GOVERNMENT COMMUNITY

CAPTURE, TRANSLATE, ANALYZE, UNDERSTAND

At the forefront of innovation, SYSTRAN develops automated translation engines based on neural networks and Artificial Intelligence, supporting a wide range of languages, including Middle Eastern and Asian languages. Faced with all sorts of growing threats, the ability to quickly analyze exponential data in a wide variety of multilingual sources (text, audio, video, image) is a compelling necessity for most government agencies.

ARTIFICIAL INTELLIGENCE BASED SOLUTION:

- A secure neural automated translation server, installed on-premise and operating behind the firewall, in offline mode;
- A 150+ language pairs catalogue;
- A REST API enabling easy integration in any third-party application, such as OSINT and COMINT platforms;
- User tools offering user-friendly access to translation features from a simple Internet browser or from Microsoft Office suite;
- Connectors with third-party processing solutions handling multimodal sources (voice, image, text, etc.).

SYSTRAN

Defense, Security, and Data Intelligence are areas in which SYSTRAN has been engaged since its creation in the late 60's. The company, which celebrated its 50 years of innovation, provides technological solutions to many government entities around the world.



27



SYSTRAN
beyond language

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THALES



Our extensive expertise makes THALES a first choice ally for any intelligence actor who wants to acquire cutting-edge solutions from dedicated Intelligence chain to Multi intelligence fusion platform for analyst. Tailor to your needs, robust and secure, our solutions offer you valuable support for rapid and effective decision-making, in complete confidentiality, preserving your sovereignty of your State.

SIMPLIFY AND AMPLIFY YOUR INTELLIGENCE

FROM DEDICATED INTELLIGENCE CHAIN...

In a world where information is key and available data are always increasing in volume and variety of sources, THALES is able to provide you intelligence chain you need among our extensive portfolio of solutions and expertise. Whatever the source of intelligence, Communications, Images, Videos, Electronic and Signals, Cyber Threat or even Open Sources, we have solutions for you already field-proven in several countries.

From sensors to global systems, our « End-to-End » expertise guarantees you to maximize effectiveness of our dedicated solution. Through our agile «Customer First» approach, we will accurately respond with solutions adapted to your specific requirements, ensuring optimal implementation and integration within your pre-existing systems.

...TO SECURED MULTI SOURCE INTELLIGENCE FUSION PLATFORM

Facing always increasing volume of data from multiple sources, having the right information at the right moment, at the right place is critical. THALES offers a state-of-the-art version of its digital platform, designed to augment analyst efficiency and capability in a sovereign and secured environment.

THALES Secured Intelligence Platform ingests and processes information from multiple sources with varying levels of sensitivity and classification. It makes possible to configure analytics flows, process structured and unstructured data, documents, logs, video and audio.

The platform is built in an open environment to support AI, Big Data, connectivity and cybersecurity capabilities. It accommodates by design third-party applications allowing customer to benefits from an extensive ecosystem of partners.

Secure by design, it allows processing of sensitive data and segregation of classified information, according to confidentiality level, access rights and need-to-know clearance. It enables complex organizations and multi agencies to securely collaborate, manage their knowledge bases and coordinate at all phases of the intelligence life cycle.



28



THALES

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Software &
Integration

VOCAPIA RESEARCH

LEADING-EDGE SPEECH PROCESSING TECHNOLOGIES

MAKING RAW AUDIO SEARCHABLE

Faced with the massive amounts of multilingual audio and video data generated in the digital sphere, it has become necessary to dispose of more and more powerful tools to efficiently extract and analyze the pertinent information located within. Vocapia provides high performance tools to facilitate the processing of large volumes of multilingual audio data for intelligence purposes (OSINT and COMINT), and also assisting analysts to exploit audio data in legal contexts or in the fight against crime and terrorism.

The VoxSigma software covers most European languages, as well as Middle Eastern and Asian languages. The systems target two types of data: broadcast speech and telephone conversational speech.

EFFICIENT AND FLEXIBLE SOLUTIONS

The VoxSigma software uses advanced deep learning algorithms to transform audio data into structured text documents. This allows users to process and filter large amounts of audio in order to quickly access content of interest.

Voxsigma features include:

- Real-time speech transcription (30+ languages);
- Language identification (80+ languages and dialects);
- Speech/non-speech segmentation;
- Key word spotting;
- Speaker diarization;
- Audio-text alignment.

Owing to an extensive experience in research and longstanding collaboration with the LIMSI-CNRS laboratory, Vocapia develops state-of-the-art systems regularly receiving high rankings in international evaluations. The R&D team works closely with customers to offer them customized technologies that are tailored to their applications. User and integrator support is an integral part of Vocapia's products and services, offering them personalized solutions in the shortest possible time-frame.

Vocapia develops leading-edge speech processing technologies designed for professional users needing to process large quantities of audio data. Founded in 2000, the company provides its software to numerous government agencies as well as major defense and security players, enabling them to transform their raw audio data into searchable textual information.



29



VOCAPIA
research

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Wintellis



In an increasingly volatile, uncertain, complex and ambiguous (VUCA) multilateral world, the understanding of your business environment and your stakeholder strategies is a tremendous asset to maintain the dynamics of your company, achieve your goals and expand your business on national and international markets.

STRATEGIC INTELLIGENCE

DECRYPT, DECIDE, DEPLOY

Wintellis is a French strategic intelligence consulting firm. We define strategic intelligence as a decision making and business conduct tool.

We support you in decrypting complex situations, enlightening your choices, and supporting your actions in the long run, providing a better control of your business environment, mainly the human one.

Our mission is, and this is our added value, to ensure to our customers a greater competitiveness, keeping them aware of always-changing positions. We also mitigate risks and detect business opportunities.

Assistance, capacity-building and ad hoc training could also be delivered to institutional organizations.

SAGIS SYTEM BASED SOLUTION:

We offer an unique service, called SAGIS (acronym in French for Système d'Appui Global à l'Intelligence Stratégique or Comprehensive Strategic Intelligence Support System).

- **Collection:** Open Source Intelligence (OSINT) practitioners launch targeted anonymous digital investigations, with continually reviewed goals, in order to collect relevant data and information.
- **Analysis:** Information is modelled and analysed on a specific cycle, generating true business intelligence. Documents are optimized to offer meaningful and instant-useable information. Memos are transmitted through secure communication channels or hand-delivered in order to ensure maximum confidentiality.
- **Strategic advice:** To remain efficient, business intelligence analysis and collection must be part of a continuous, confidential and close dialogue with the client. It is provided by a dedicated expert, who is responsible since the very beginning of the mission.



Wintellis
INTELLIGENCE STRATEGIQUE

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GICAT

The French land defence and security
industry association

GICAT, a professional group, created in 1978, has over 270 subscribers, corporations, midmarket companies, SMEs and startups. These members cover a wide range of industrial, research, service and consulting activities for military and civil organizations, of national or international scope, involved in land and/or airland security and/or defence.

The international ambitions of GICAT are reflected in its international exhibitions, EUROSATORY in France, Expodefensa in Colombia, ShieldAfrica in Ivory Coast, and Platinum Security Exhibition in Monaco, organised by its subsidiary, COGES, and a certain number of other defence and/or security exhibitions overseas.



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