

SECURITY



CAPABILITY APPROACH

# ***SMART AND SAFE TERRITORIES***

FRENCH EXCELLENCE  
IN DEFENCE AND SECURITY

# **GICAT**

The French land defence and security  
industry association



**GICAT.COM**

2



# EDITO

The Covid-19 health crisis and the ensuing lockdown triggered a sudden refocus on our territories: on the territory we live in, the territory we call home. This turn of events came with an unprecedented surge in the use of digital technology! All over France, and particularly in Saint-Quentin-en-Yvelines, near Paris, digital became the facilitator of homeschooling and continuing working from home. But it also allowed us to stay in touch with one another, as social distancing became the rule.

Today, we are shaping and even building the smart city of the future. A more connected city, integrating Artificial Intelligence, Cloud computing and Big Data, where the population takes on a more active role in serving the community.

The ambition is to make life easier for users in a better place to live, a public space that is safer, more organised, more personal and less hectic. Expectations will run high. Closer to their home, our inhabitants will want to recapture and settle back in to their territory. And those expectations must be met, particularly in a territory like ours. A town in the country: the new factor of appeal in the aftermath of lockdown!

Because a smart city is not just about security. It encompasses every facet of a territory's activity: economy, education, mobility, culture, environment and the social dimension. As its elected representatives, we have a role to play, together with our private partners, in what we commonly call the «world afterwards».

In this context, the slogan of Saint-Quentin en Yvelines, «a land of innovation», takes on its full meaning. As a smart city boasting 17,000 businesses operating in the most strategic sectors - aerospace, automotive,

defence, security, cyber security and digital - Saint-Quentin en Yvelines is working to build the city of tomorrow.

We are committed to developing a powerful ecosystem of which our smart lighting system is just one example.

Also, as an Olympic territory of the 2024 Summer Games, we are preparing for the advent of 5G. Our National Velodrome Olympic site is the selected venue for the very first 5G trial in France!

So, to sustain our role as a land of innovation, we are instilling a real digital culture in our inhabitants from their earliest age. The school pupils and teachers in our 12 districts are adopting the very best digital tools to prepare for tomorrow's world. This is also an incredible barrier to academic failure and an important gateway to future employment.

Digital technology is indeed the world's greatest driver of intelligence, innovation and growth! And GICAT contributes to that drive.

As you can see, smart cities are emerging in the heart of our communities. And in light of the post-lockdown economic, social and health challenges we will face, trust will be a key concern for tomorrow's territories, more than ever before.

3

**JEAN-MICHEL FOURGOUS**  
President of Saint-Quentin en Yvelines  
Mayor of Élancourt



# SAVE AND SMART TERRITORIES

## COMPONENT BREAKDOWN

### DETECTION

The first priority of a Safe City project is to gather and manage realtime information. Most communities have typically started with video surveillance, which is still usually the main staple of their equipment system. But cameras are now merely one component of a much larger set of tools that includes smart lighting, sensors and high-tech strategies to collect massive datasets and feeds, video, sound and a variety of other information. This category also includes human resources (canine units, undercover agents and informants). These are not covered here, but their data also need to be received and integrated.



### CCTV AND CAMERAS

Ground-based video surveillance or video surveillance on-board flying vehicles, can now provide highly accurate and very highdefinition geolocated images. Traditional RGB video is supplemented by multi-spectral and radar imagery that is capable of detecting concealed objects, and distance measuring systems used to locate any objects or persons under surveillance with a high degree of accuracy.

These image sensors are now able to automatically track a moving target, establish the trajectography, and detect abnormal or suspicious behaviour. They can be rendered even more effective by the use of appropriate lighting systems.

Cameras are not only the perfect addition to human resources, they also lead to savings. They have a very useful dissuasive effect and are a very reliable source of evidence and verification.

### FACIAL AND VEHICLE RECOGNITION

Facial and vehicle recognition offer major benefits in terms of efficiency, the reduction of work-related fatigue among personnel, and savings, as it can be used to monitor a particular area and to quickly carry out a search using a large number of sensors to find an individual or a vehicle that has eluded surveillance (or to quickly initiate such surveillance). It also reduces the risk of an important event being missed as a result of the tiredness or inattention on the part of an operator. To further reduce this risk, the systems are generally set so as to have a high tolerance, which causes them to give false positives. The efficiency of the systems is measured therefore by the number of false positives for a given event and the number of missed events, although this is more difficult to measure.

In the past these functions were carried out by ad hoc equipment connected to cameras. An important development of current equipment is that it incorporates these recognition functions directly in the sensors that no longer transmit the flow to the central system but alert it when an event occurs. This means that a large quantity of bandwidth can be freed up and mobile or abandoned sensors can be used.

### GUNSHOT DETECTION

Gunshot detectors are used to quickly alert operators so that they can direct other sensors towards the point where the gunshot was detected and/or quickly despatch response and first-aid units. This means that the arrest rate is increased, collateral damage is reduced, and the chances of obtaining evidence and identifying witnesses increased.

They are also used to precisely locate the incident, which avoids multiple alerts being given if a number of different people contact the authorities. Finally, they have a genuine dissuasive effect both with criminals and people who like to fire guns into the air in celebration.



## ALERT SENSORS

This category of sensors combines multiple data sensors. The most traditional are smoke, heat, liquid leak, gas, break-in, traffic counting, and vibration detectors, but there are also detectors of ambient light, rain, fog, etc. This category also includes system status indicators (faults in equipment such as traffic lights) and vehicle location systems. These sensors provide permanent monitoring without any human intervention and in spaces that may be unoccupied, hidden or difficult to access (sewers, technical units in buildings...). They transmit a wide range of information to the central unit that allows it to take better decisions that are more suited to the context. They also significantly reduce maintenance by calling out responders when they are required.

It is expected that this segment will experience major upheavals as a result of the generalisation of Internet connection, the generalisation of these systems with private individuals and the connecting up of those installed in buildings in the public or private sector.



## ANALYSIS

It is essential that any information operative received from sensors must be legible and actionable. Analysts are therefore tasked with helping personnel analyse and extract pertinent and potentially crucial information as quickly as possible. These tools can be used in real-time mode (alert, surveillance, or intervention) or in delayed mode (intelligence, investigations, blind-spot mapping, SOP updates, performance analyses and determining training programmes etc.)

5

## SENSOR FUSION

This function is designed to bring together all the data from various sensors. The first level of this integration is the composite image or displaying an image on a map. The second level is the use of some pieces of information to carry out automatic actions (designation of objective for another sensor, search for corroborating information,...). In the future, and with the help of deep learning, it is expected that this function will become an abstraction layer and provide help in decision-making. This will mean that one will no longer think in terms of data or sensors but in terms of events, such as an accident, a traffic jam or a lighting problem etc. This sort of approach will allow the integration of business logic into the system. This business logic will assist operators at the time of an event by offering them decisions and response plans.



## PATTERN ANALYSIS

These functions should also benefit greatly from the advances made possible by deep learning. These technologies operate at two levels. In real time, any data obtained from the sensors can be analysed in order to identify alert situations, such as the abnormal behaviour of individuals in a crowd, or an attempted break-in. But they also allow in-depth analyses thus considerably improving the detection of latent threats and weak signals.





# SAVE AND SMART TERRITORIES

## COMPONENT BREAKDOWN

### DECISION-MAKING

This category contains communications networks, command centres, system defence equipment and post-event analysis tools.



### COMMUNICATIONS AND COOPERATION

Network connectivity is one of the most important components of any safe city project and particular vigilance is required with regard to the expression of requirements, design and implementation. It must allow command to issue orders, coordinate the actions of the responders, receive any information required and report to the authorities. It is a fundamental requirement that the network be efficient, fast, safe and capable of carrying voice, data and video, in both directions, with no risk of transmission delay, fluctuation or packet loss. Scalability must be taken into account to allow for expansion as and when new requirements and uses arise.

Cooperation between stakeholders is also essential even if only to provide an efficient response to any event, and to ensure the safety of the responders. This cooperation must include access to external data such as identity records or special operating methods in the event of non-standard incidents. Coordination with others, not specifically Safe City stakeholders (such as for example traffic control), is also an advantage. Such cooperation must occur both during and before the event to ensure effective prevention.

### COMMAND CENTERS

A cutting-edge command centre is indispensable. It includes the functions of command, control and coordination and is used to assess the situation, direct operations and report to the authorities. It also provides access to reference data (plans of towns and buildings, digital models, database of people and goods, etc.). It also offers the functions of higher level synthesis (search over the whole perimeter, people counting, satellite or aerial view, etc.). Finally it enables general sharing of information by functions.

It generally consists of three zones - an operational management zone that is used to direct operations in real-time, a mission preparation zone to prepare responses and a post-event analysis zone. It is also often judicious to provide a space for the officials in order to allow them to maintain a certain distance from the events (this space can often be physically removed from the central unit) and a press and public area where certain pieces of information can be displayed after screening.

The Command Centre is, however, not only a question of technology. Operational teams are required to spend long hours there in often stressful conditions. It is therefore essential to pay particular attention to ergonomics, interfaces and more generally the quality of life of the operators.



## DATA PROTECTION

Data protection includes three large families of problems. The first is the protection of the integrity of the systems. For a determined criminal, it is easier to create chaos in a town by triggering multiple false alarms, or by saturating the networks, rather than going to the bother of creating multiple incidents in the real world. In addition, if a cyber-attack takes place at the wrong time, for example just after a terrorist attack, there is a risk of disorder arising in front of the global press, which will seriously damage the image of the city and its elected officials and will increase the risk of panic.

The second area of protection is data protection. The data contained in the city's information systems, contain a great quantity of sensitive data for citizens such as their civil status, their home, their children's school, their travel habits (via their transport season tickets), their financial situation (via social programmes), etc. The theft of such data is likely to have serious consequences for them. The destruction of this data would deprive them of any service for days. More insidious is the risk of data corruption. A terrorist could seek to damage or destroy their profile to escape detection. A criminal could place a false suspect in the police files to muddy the waters. A forger could try to produce fake driving licences, etc. Trust mechanisms must therefore be of the highest possible standard.

The third and final area is internal monitoring. It has to be recognised that, since the dawn of civilization, internal fraud and illegal access to documents has always been a marginal, albeit unfortunately real, phenomenon in all administrations. Systems must therefore be put in place to ensure traceability of access and operations so as to be able to identify and deal with any potential breaches of ethical guidelines. This is the price of public confidence.



7

## POST-EVENT MANAGEMENT

This category includes all methods used in investigations and to obtain feedback. It includes, as a minimum, a system for storing temporary system data connected to the event. It also normally comprises various management applications and mechanisms for any evidence gathered, documents used in the investigation and other related documents. It may also include detailed analysis systems, systems for finding correlations and weak signals, along with means for summarizing, providing advanced visualisation of and managing information.



## ACTION

Once a decision has been made, it needs to be put into action. This is a vital part of the process as it entails intercepting criminals, rescuing victims, securing witnesses, preventing secondary and collateral damage, and finally bringing about a return to normality and incident closure. Responses differ by incident, but they can be broken down into general categories. It should be noted that choosing the right first responders is frequently a determining factor in preventing an incident from escalating or becoming worse. It should also be mentioned that given the nature of current threats, authorities are often required to send in multiple teams (e.g. firefighters and law enforcement).

## ONSITE AUTOMATION ACTION

A first level of response is automatic action, generally onsite. The aim is to gather information, to implement confinement measures, and to start to deal with the problem. There are numerous examples in buildings (extinguishers, smoke extraction, current breakers, emergency lighting...). They are less current at the scale of the city but the situation will rapidly change.



# SAVE AND SMART TERRITORIES

## COMPONENT BREAKDOWN



### POLICE AND INVESTIGATIONS

These first responders are those that correspond to the incidents caused by criminals. Their aim is, on the one hand, to apprehend any suspect and perpetrator, and, on the other hand, to protect the zone and finally to gather up evidence (witness testimonies and evidence). The emergence of the conclusive evidence provided by video recordings and the spectacular advances in forensic science have transformed the job. It is now clear that the use of technology has led to outstanding improvements in both arrest rates and clearance rates. These first responders also comprise those with specialist skills such as deminers.



### RESCUE

These first responders are more often than not firefighters and doctors. The speed of their response and the suitability of their equipment are key factors in any success.



### LAW ENFORCEMENT

The first role of the law enforcement agencies is to ensure the safety of both property and people, in particular those who are not involved in the event. They are also employed to contain the event to a given geographical area and to contain any crowd movements that may result from the event. They also sometimes need to respond to protect the first responders.

8



### PUBLIC INFORMATION AND SOCIAL MEDIA

It is essential that the public be kept well-informed in order to avoid any panic, networks being overwhelmed by pointless calls, the spreading of rumours, and irreversible damage in terms of image. These systems include two sub-families. The first is incident alert management. New technology-based resources have been added to the tried and tested siren. The second is information management. As soon as people become aware of the incident, they will seek on the one hand to obtain information, but also, to report what they have seen, which is a new development. Social media has a major role to play in this, alongside of course detailed management of communications and the press.



















### SUPPORT PERSONNEL TRAINING

The effectiveness of the operators must be constantly maintained at the highest possible level. The tasks to be carried out, which are often technically, physically, tactically and mentally difficult, can only be done by specially trained personnel who fully understand both their duties and their equipment. Training must therefore be constantly adapted based on the changes in threats and feedback.

Training must involve both the individual and the group and the units, and must ensure total control of classic situations and techniques and any equipment deployed. These training programmes may be provided in sites specifically set aside for this purpose (schools) or onsite (in situ).



## INDEX

		 CCTV and cameras	 Facial & vehicle recognition	 Gunshot detection	 Alert sensors	 Sensor fusion	 Pattern analysis	 Communications & cooperation	 Command centers
ACTIA	10							+	+
AERACCESS	11	+	+	+	+	+	+		
AMCO LES ESCAMOTABLES	12								
ARDANTI DEFENSE	13	+	+		+		+	+	+
BERTIN TECHNOLOGIES	14	+	+		+	+			
CEGELEC DÉFENSE	15	+	+		+	+			+
CERBAIR	16	+	+		+	+	+	+	+
DEVERYWARE	17							+	+
GEOL SEMANTICS	18						+		
GROUPE MARCK	19								
IDEMIA	20		+		+	+	+	+	+
LUCEOR	21	+	+					+	
METRAVIB DEFENCE	22			+	+		+		
PHOTONIS	23	+	+		+	+			
PRYNTEC	24	+	+						
SURYS	25		+						
THALES	26	+	+	+		+	+	+	+
TOUTENKAMION GROUP	27								+
		 Data protection	 Post-event management	 Onsite automation	 Police & investigations	 Rescue action	 Law enforcement	 Public information & alerts	 Personnel training
ACTIA	10	+	+					+	
AERACCESS	11			+	+	+	+	+	
AMCO LES ESCAMOTABLES	12			+					
ARDANTI DEFENSE	13								
BERTIN TECHNOLOGIES	14	+							
CEGELEC DÉFENSE	15	+							
CERBAIR	16		+				+		+
DEVERYWARE	17		+			+			+
GEOL SEMANTICS	18		+					+	
GROUPE MARCK	19					+	+		
IDEMIA	20				+		+		
LUCEOR	21								
METRAVIB DEFENCE	22								
PHOTONIS	23						+		
PRYNTEC	24		+	+	+				
SURYS	25								
THALES	26	+	+		+			+	+
TOUTENKAMION GROUP	27								

# ACTIA



**ACTIA is an international and family-owned company which has a great expertise in designing, manufacturing and supporting customized solutions for satellite telecommunications (satcom) for defense and governmental markets. With 24 companies in 16 countries and 3800 staff, ACTIA has based its growth on commitments: innovating, manufacturing, creating values, demanding quality and staying independent.**

10



## SATCOM SOLUTIONS DESIGNER, MANUFACTURER AND INTEGRATOR FOR DEFENSE

### RUGGEDIZED AND FIELD-PROVEN SATCOM TERMINALS

ACTIA Telecom offers a wide range of robust and easy-to-use satcom terminals and systems guaranteeing secure 2-way transmissions of video, voice & data in C, Ku, X, Ka, Q, V Band and dual band (X/Ka). Compatible with any modems.

- TravelSat: compact manpack terminal.
- FlyAwaySat: easily transportable terminal.
- MobileSat: low profile, light weight On-the-Move terminal.
- CoreSat: earth station with 1m to 9m antennas with manual or automatic pointing.
- ACTIA Satcom network monitoring system which offers operators simple and effective means of monitoring and controlling a satcom ground segment and its network of terminals.
- ACTIA Telecom also provides its customers with all the support they need in the design and acquisition phase and during operation: engineering, training, hotline and maintenance.

### RELIABLE PARTNER FOR ALL OPERATORS

For more than 35 years, ACTIA Telecom's offer in the Satcom Defence and Civilian field includes supplying major products for the ground segment of satellite transmissions (power amplifiers, integration assemblies, supervision systems, etc.), supplying turnkey stations (stationary, transportable, tactical and mobile stations) and providing the related services: engineering, installation and implementation, training, maintenance in working condition.

ACTIA Telecom brings the following key benefits to its clients:

- Sector experts: land, maritime, air and space;
- Dedicated industrial site for Satcom: R&D, manufacturing, integration, qualification capabilities and customer service;
- Extensive records in satcom ground segment integration: RF sub-systems/ baseband/ terminals/ network operation centers;
- Expertise in designing / manufacturing of high-power amplifiers (TWTA, SSPA) and earth stations up to Q/V band;
- Full master of radio frequencies up to 50GHz;
- Signal processing/transmission techniques including complex modulations;
- Services: customized trainings for operation and maintenance, antenna commissioning (up to 13m), Integrated Logistic Support.



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# AERACCESS

**AERACCESS designs and manufactures UAVs for Defense and Security, able to fly:**

- in all-weather conditions (heavy rain, night, fog);
- in strong winds up to 80km/h;
- inside unprepared buildings for intelligence and inspection.

**AERACCESS drones meet the highest aeronautical standards and are homologated by the French DGAC and equivalent NAA around the world to perform automated, autonomous and critical missions.**

## THE FRENCH EXPERT IN UAS TECHNOLOGY FOR DEMANDING SAFE CITY

### ROBUST, RELIABLE, MODULAR & SIMPLE TO USE

Autonomous drone-in-a-box systems for perimeter security and site protection are differentiated by the drone they operate: "What's important is the drone".

AERACCESS autonomous systems with the Q800X drone are the only systems on the market capable of operating in harsh weather for multi-missions:

- Tethered crowd surveillance AND target tracking once released;
- Mobility of the box AND remotely operated autonomous drone, etc.

The Q800X carries various interchangeable payloads making it a true multi-mission automated drone-in-a-box site protection system including EOIR x30 zoom; PHOTONIS NOCTURN camera for night operations; Loudspeaker; IPMESH; Laser Range Finder; Laser Designator; IMSI catcher; CBRN sensor. The Q800X integrates also a safety parachute and is approved to fly over crowds and manned areas.

### ARTIFICIAL INTELLIGENCE (AI) AND MOBILITY

AERACCESS drones are compatible with several dronebox offering a scalable level of service including complete integration with the major VMS on the market (Genetec, Milestone, OnSSI, Qognify, DVTEL, etc.) and powered by Artificial Intelligence (image analysis, threat recognition, false alarm filtering, voice control, etc.).

AERACCESS Dronebox advanced features are making them unique on the market:

- Remote command of a single drone or an entire fleet housed in separate boxes located at different points;
- Full remotely-operated service package including remote monitoring center, secured VPN datalink with encrypted data and remotely operated dronebox.

AERACCESS HawkEye is the local operator drone. With a total weight from 1 to 2.5kg, it offers a range of 3km with a visible and a thermal sensor. Man-transportable and easily operated, the HawkEye offers all automated-flight functions and emergency procedures.

AERACCESS NanoHawk is a nano-UAV capable of flying autonomously indoor to perform intelligence and inspection missions with both a visible and a thermal camera.

The NanoHawk can fly outdoor for a few hundred meters and then perform its indoor mission up to 3 levels above (or below) the operator and team.

Designed and manufactured in France, AERACCESS UAS are made solely with French or European components.



**aeraccess**  
airborne engineering research

**AERACCESS**

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# AMCO LES ESCAMOTABLES



**Amco Les Escamotables is a true french family company that has been developping first in France and now expanding in the world. During more than 25 years, our values were born through listening to our customers. We adapted our products to their real needs and tried to keep conception of our products as simple as possible for easier use.**

## DESIGNER AND MANUFACTURER OF PERIMETRIC AND PROTECTION SECURITY PRODUCTS

### TO PROTECT SITES TOGETHER WITH YOU

Amco Les Escamotables designs and manufactures safety products which strength and double crash test certification ensures you an optimal installation quality.

Our products ensure the security of any site worldwide with the highest level of safety. Our design office built evolving and reliable products to ensure highest performances in the most demanding conditions, adapting each day to market needs.

Anti Intrusion range AMCO answers to all european and american norms in terms of security against vehicles CWA 16221, PAS 68, ASTM F2656-07 (K12,K8, K4 selon DOS).

In order to go one step forward in city area protection and to get into developping a new era of Safe City, we have created and developped the unique and patented concept Security by Design: these are shelters getting fixed on our crash-tested bollards. Designed and built to keep the best resisting performances and still answer to the protection needs of cities and buildings, but with aesthetic. Bollards are then hidden, to avoid any anxiety inducing products in the urban life, offering a connected multifunction solution.

### DISCOVER OUR RANGE DEDICATED TO URBAN SAFETY

- Automatic bollards for perimetric protection and safety, depending on safety need.
- Urban safety or protection fixed bollards, to secure pedestrian areas for example. Eiffel tower is surrounded by our bollards in front of the glass wall.
- Mechanical bollards (manual or semi-automatic), to manage pedestrian / vehicle access.
- Energy distribution bollards (water, electricity) to provide energy on urban or rest areas in total safety.
- Multifunction anti-pollution design bollards Security by Design: secures sites like public building or any kind of sites with specific aesthetics. Available in a anti-pollution or stone material, our covers are designed for the sharpest request. Its option catalog makes this product flexible to any kind of today's needs in the urban safety furniture.



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CCTV and cameras



Facial &amp; vehicle recognition



Alert sensors



Pattern analysis



Communications &amp; cooperation



Command centers

# ARDANTI DEFENSE

## PHYSICAL PROTECTION OF SITES AT THE LOWEST COST

### OFFER 1: DIGITAL PROTECTION AUDIT

- Production of a 3D site protection model.
- Provision of a protection simulator.
- Insertion of existing means of protection; sensors, infrastructure and guards, and then automatically scroll through thousands of possible intrusion scenarios.
- Threat / protection confrontation to mathematically identify vulnerabilities.

Our procedures guarantee the protection of sensitive site information.

### OFFER 2: PROTECTION ARCHITECTURES DESIGN

Either as a service, or in autonomous use via a software license:

- Simulation of existing or planned means positioned on the digital model: sensors, effectors, devices, procedures, human means... via a database of means and performances;
- Assistance in designing new protection plans through 3D simulation: confronting threats against protection architectures, taking into account specific environmental or failure conditions;
- Selection of innovative, high-performance protection means;
- Creation of cost-efficiency dashboards, which help technical experts and decision-makers to optimise associated investments against targeted performances.

### OFFER 3: REINFORCEMENT SOLUTIONS

On an existing or future site:

- Kits of surveillance reinforcement by 360° laser detectors, without false alarms and not luring;
- Robotic means of surveillance, aerial, wheeled or on foot;
- Supervision software, delivering a unified tactical situation.

Ardanti Défense, an independent innovative SME, counts among its customers the French Ministry of the Armed Forces, the nuclear sector (CEA, etc.) and the civil sector (Air Liquide, Sanofi, etc.).

**Designing protection, a challenge**  
Protecting a site involves finding the equation that combines at the best cost:

- the 3D physical situation of the terrain;
- threats;
- the triptych detection + braking + intervention.

**But the infinity of combinations to be analysed is beyond the capacities of human beings.**

**And it is necessary to have an independent view on the choice of technology and equipment.**



**Ardanti!**  
DEFENSE

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# BERTIN TECHNOLOGIES



CCTV and cameras



Facial &amp; vehicle recognition



Alert sensors



Sensor fusion



Data protection

As a reliable partner of public institutions & industrial contractors, Bertin Technologies, a CNIM Group company, relies on its long experience to develop, produce & market a wide range of high added-value systems & instruments, in response to the major technological challenges of kingly sectors such as Defense & Security.

## CUTTING-EDGE OPTRONIC SYSTEMS

Being part of the French leaders in industrial innovation, Bertin Technologies provides surveillance & reconnaissance equipment especially designed for difficult environments, to protect & occasionally or permanently monitor critical sites such as customs, airports, oil & gas facilities, nuclear power plants, etc. or major cultural, religious & political events.

- **A lightweight night & day vision enhancer (FusionSight®)**, combining 2 viewing modes - color low light & thermal - to use separately or in smart fusion. Increasing detection, reconnaissance & identification capabilities up to 3km., FusionSight® proves to be a key tool for short- & long-term tracking & surveillance operations led by security forces.
- **OEM camera modules** to be integrated into the heart of complex optronic systems (CamSight®), available in multiple versions: thermal, low-power thermal & low-light level. Ultra-compact, they can be loaded on tethered aerostats.
- **Situational awareness system for vehicles, ships & critical sites (PeriSight®)**, offering thermal & day/night visualization, as well as short- or long-range vision up to 360°. Adapted to the operational requirements of the military & civil security forces, PeriSight® provides a high-quality perimeter vision of the air, land & sea environments in all weathers up to 2km. Compact, the PeriSight® module can be integrated into all types of vehicles or be installed on top of critical & strategic infrastructures. Being modular, it can work as a standalone device or be integrated within a PeriSight-based system for perimeter surveillance or driver's vision enhancement.
- **Unattended Ground Sensor (UGS) networks (Flexnet®)**, a solution of Exensor, a Bertin Technologies subsidiary) for surveillance & force protection. Based on wireless & battery-operated sensors (seismic, acoustic & infrared), combined with day/night cameras, the quickly-deployable Flexnet® platform records movements to detect, classify & identify any potential threat on the ground, over broad zones. As a tailored solution, it improves situational awareness & strengthens operational capability on the field.
- **Tethered aerostats (CNIM Air Space, a CNIM group company)**: taking onboard any kind of payload (EO/IR camera, relay antenna, radar, etc.) up to 250kg., they can transmit to the ground station reliable information for important decision-making.



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CCTV and  
camerasFacial & vehicle  
recognition

Alert sensors



Sensor fusion

Command  
centersData  
protection

## RESILIENCE OF CRITICAL INFRASTRUCTURE AND NETWORKS

### PROTECTION OF COMMAND AND STRATEGIC NETWORKS

Since 1967, CEGELEC Défense is the National leader for the construction and protection of strategic communication networks. This expertise encompasses the physical protection, life cycle maintenance, in-service support, upgrades and cybersecurity of the networks. CEGELEC Défense offer addresses comprehensive risks as well as malevolent actions and attacks of all sorts: High Altitude Nuclear Electromagnetic Pulse, earthquakes, floods, climatic extremes, blasts, hostile intrusion, Cyber and CBRN attacks, Industrial accidents, etc.

This cross-technical expertise is leveraged by the ability to commit immediate response teams across the globe with the support of the international VINCI Group network of companies.

### SECURITY OF PUBLIC UTILITIES - ESSENTIAL SERVICES & CRITICAL INFRASTRUCTURE

CEGELEC Défense leverages its expertise in critical infrastructure for the protection of essential utilities and public services: Power, Water management, IT & communications, industry,...

Additionally, CEGELEC Défense proposes a range of deployable mobile commodities to supplement or palliate fixed networks and services shortcomings in crisis response situations: Emergency Support, Water Purification Units, Emergency Operation Centers.

The experience gathered by CEGELEC Défense for the protection and security of critical infrastructure integrates the whole spectrum of technical solutions:

- Perimeter Fencing;
- Buildings reinforcement both above or underground;
- Access Control;
- Intrusion detection;
- Video surveillance;
- Supervision and monitoring control rooms;
- Tempest and Faraday caging;
- Cybersecurity Agreement support.

CEGELEC Défense has been awarded the French MOD public tender for the protection of all facilities and bases.

# CEGELEC DÉFENSE

CEGELEC Défense has been involved in the design and construction of the highly resilient French strategic Nuclear deterrence facilities for over fifty years. This expertise is extended to the protection and security of critical facilities and networks necessary to the continuity and survivability of governance and essential economic services or utilities.



15

**Cegelec**  
Défense

**CEGELEC DÉFENSE**

Henri CHEVREUL

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# CERBAIR

Founded in 2015, CERBAIR is a French security and defense company, which was created to respond to drone incidents. Our mission is to offer a cost-effective solution and give the possibility to any entity to protect its airspace. Our solutions deliver 80% of the performance of defense giants for 5% of their prices. This approach allows civilians to protect themselves like any sensitive strategic infrastructure.



CCTV and cameras



Facial &amp; vehicle recognition



Alert sensors



Sensor fusion



Pattern analysis



Command centers



Post-event management



Law enforcement



Personnel training

## ANTI-DRONE SOLUTION

Our stationary, mobile and portable anti-drone solutions use radio frequency sensors and effectors to protect sensitive sites against malicious drones. Our solutions always adapt to our customers' environment as well as their budgets thanks to our modular approach. CERBAIR thus protects nearby airspace in 3 stages:

- 1/ Detect:** even before the drone takes off;
- 2/ Identify:** type of drone;
- 3/ Neutralize\*:** real-time alerts make it possible to quickly stop the pilot or intelligently jam his drone to force it to land.

\* In France, the purchase and use of jamming technologies is intended solely for the needs of public order, defense and national security, or the public service of justice in accordance with art. L33-3-1 of the Post and Electronic Communications Code.

## HYDRA, MEDUSA AND CHIMERA CERBAIR SOLUTIONS PERFECTLY TACKLE SECURITY CHALLENGES.

### HYDRA

A complete range of radio frequency detection solutions allowing several customizations:

- Format: stationary for corporate buildings or mobile for law enforcement during temporary events;
- Accuracy: omnidirectional or azimuth detection;
- Ruggedness: provided with a normal, semi-rugged or rugged laptop depending on the environmental or usage constraints.

### MEDUSA

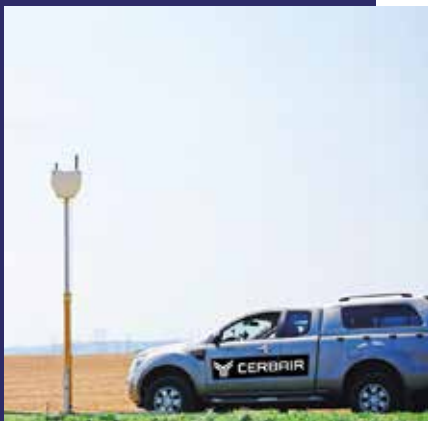
To neutralize malevolent drones, MEDUSA allows you to customize a jammer with a choice of:

- Format: fixed or mobile;
- Accuracy: via the antennas type for omnidirectional or direction finding;
- Reach: Several levels of coverage and reach.

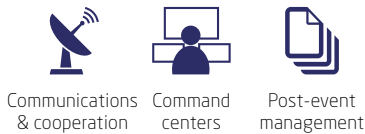
### CHIMERA

To date, it is the only portable solution in the world that has successfully merged drone detection and neutralization technologies in the same hardware base. The solution consists of a box attached to the tactical vest, a portable directional antenna and a rugged tablet attached to the front of the operator's vest. This complete, miniaturized solution detects drones and their pilots from the moment their remote control is powered up.

16



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# DEVERYWARE

## SOLUTIONS AND SERVICES FOR CRISIS MANAGEMENT AND EMERGENCY CALLS

### MANAGING CRISES, RISKS AND EXCEPTIONAL EVENTS

As a subsidiary of Deveryware and for more than 10 years, Resiliency has been preparing organisations to face exceptional situations so as to improve the safety & security of companies and populations. Its global offer encompasses consulting and training services, tools and trainings dedicated to the management of and preparedness to sensitive situations. It also provides simulation exercises and digital solutions for managing and communicating about crises:

- CAIAC: geographic information system;
- SAGA CRISIS: logbooks and situation dashboard;
- VISIOBOARD: monitoring & tracking dashboard;
- FULLEX: crisis exercises for media and social networks;
- DIGITAL ECOSYSTEMS/VOTRESALLEDECRISSE.FR: the “marketplace” bringing together tools for monitoring and managing crises, and for business continuity.

### NEXT-GENERATION EMERGENCY CALL

GHale is an emergency call routing platform in compliance with the European standard PEMEA (Pan-European Mobile Emergency Application), according to the next-generation Pan-European emergency call service - web 112. It improves the interoperability of the 112 helpline with emergency call centres and beyond frontiers, and offers many advantages:

- precisely locating a person's call, wherever they are in Europe (location sent automatically to the 112 centre);
- sharing of vital data with emergency services, in full compliance with GDPR requirements;
- “facilitating” communication with emergency services: exchanging contents (photos, videos), video chat, real-time multilingual translation of messages exchanged with emergency crews;
- enabling hearing-impaired and deaf people to make phone calls, with the assistance of a sign language interpreter.

The application is currently being deployed in Europe: in Spain (notably in partnership with the telecom operator Telefónica), Romania, Slovenia, the Netherlands, Sweden and Finland. In France, it is being developed within the framework of the NexSIS project.

Deveryware is the European leader in technologies and services for global security (with €31M turnover and 130 collaborators). Its subsidiary, Resiliency, provides tools and services for risk and crisis management. Its expertise also covers next-generation emergency calls with Ghale, an emergency call routing system enabling greater interoperability between mobile apps and emergency call centres.



**DEVERYWARE**  
Committed to Better Security

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# GEOL SEMANTICS



Pattern  
analysis



Post-event  
management



Public  
information  
& alerts

Because knowledge allows us to interpret the world, GEOLSemantics focuses on knowledge, beyond words and data. "From data to knowledge in the service of mankind", here is the vision that we wish to share with you. Our job is to take up the challenge of texts comprehension for the benefit of smart cities.

## SEMANTIC INTELLIGENCE FOR SMART CITIES

### SMART TOOLS FOR SMART TERRITORIES

GEOLSemantics analyzes texts to identify and collect data on past, current and future events. It draws on heterogeneous digital data to inform the development of better services for smart cities. To ensure results that meet national security requirements, our tools combine the best of today's technologies: Artificial Intelligence, advanced Natural Language Processing (NLP) and Semantic Analysis Processing. Ideal for analyzing data about individuals as well as groups and their activities, these solutions go beyond the simple data collection stage to bring knowledge to life and prepare for the ideal city of tomorrow.

### DETECT, ALERT, EVALUATE, IDENTIFY

Our solutions improve the overall operation of a service and make our cities safer by:

- Reporting problems automatically;
- Detecting the potential for events which may have adverse impacts;
- Triggering alerts in the event of natural or man-made disasters.

These tools are used in particular to:

- Provide alerts for events (eg: accidents, fires, traffic jams, illegal garbage dumping, acts of violence, spontaneous parties) that may require the intervention of local authorities (esp: firefighters, ambulances, police);
- Enrich history of geo- and chrono-located incidents;
- Gather new details and clarify information on the same fact extracted from various sources;
- Detect potential social media influencers / influencees;
- Provide information from social networks about a city's projects, construction sites, transport, discourtesy, etc.;
- Ensure the privacy of citizens is respected by identifying personal data in texts or abusive or racist comments according to the GDPR regulations.



Small Map: Paris planning (GICAT)

Small map: LA Bataille

Small map: 10-07-2020 between 00:00:00 and 22:00:00



**GEOLSEMANTICS**  
Stéphane GRYNSPAN  
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Rescue action

Law  
enforcement

# GROUPE MARCK

## UNIFORMS, PROTECTION AND INTERVENTION

### EQUIPMENT OF THE INTERVENTION FORCES

Groupe Marck designs and manufactures workwear uniforms for public forces whose mission is to ensure the security of people, buildings and infrastructures: national and city police, firefighters...

Made from high-performance materials, the equipment is developed according to the technical requirements of each job and usage. Materials, patterns, manufacturing methods and colors are all harnessed to support human intervention in critical environments, with the focus on ergonomics, comfort and optimum protection.

Many types of products can be developed to meet different situations: bulletproof vests, tear-resistant sleeves, coveralls, over-trousers, shoulder pads...

### PERSONAL PROTECTIVE EQUIPMENT - PPE

Groupe Marck designs and manufactures personal protective equipment (PPE) thanks to its expertise in technical textiles and combining flexible materials to offer its customers the best security clothing and equipment. Each risk and work task has its own protective clothing. Using technical materials with specific properties (high visibility, resistant against fire, cold...) and specific manufacturing methods (folded, watertight or topstitched seams), these items protect people's physical integrity at work and in dangerous or emergency situations.

With a range of over 800 technical products including category 1 to 3 PPE (mortal risk), Groupe Marck is also capable of developing made-to-measure solutions to meet all specifications, from the simplest to the most exacting. Many products exist or can be developed to cope with numerous risks, either single or combined: electrical, thermal, climatic, mechanical, electrostatic, chemical risks, etc. All Groupe Marck's PPE strictly comply with the European or international standards in force.

**Groupe Marck is a French manufacturing group that designs, manufactures and sells uniform, equipment and service solutions to public authorities and private companies in France and worldwide. Groupe Marck supports its customers in the complete management of clothing and equipment needs. Beyond a product offer, it offers a wide range of associated services and solutions to meet all expectations and needs.**



GROUPE MARCK

GROUPE MARCK

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# IDEMIA

**IDEMIA is the leader in trusted identities in an ever-more digital world. We are developing advanced solutions for civil identification, authentication and securing environments, based on cutting-edge technologies, biometrics, artificial intelligence and cryptography for a smooth and simplified experience.**



## THE LATEST BIOMETRIC TECHNOLOGIES FOR PUBLIC SAFETY

### SERVING THE MOST DEMANDING OF CLIENTS

Standing beside governments and police forces for over 40 years, IDEMIA has developed cutting edge expertise in the field of biometric solutions (fingerprints, iris and face scans, DNA, tattoos) with the deployment of over 170 automated biometric identification systems across the globe. We assist them in their mission by offering innovative, intelligent and intuitive systems based on high-precision algorithms.

As the market leader, we combine biometrics, automation technology and artificial intelligence, such as multi-object video analysis to ensure heightened security for sites, critical infrastructures, events and public spaces.

### FROM DETECTION TO HELP WITH DECISION-MAKING

IDEMIA provides support to governments and public authorities to boost the capacity for action by police technical and forensics departments, public safety bodies and immigration management departments such as border police, through the deployment of innovative solutions that combine multi-biometric approaches, system interoperability and artificial intelligence.

- Real time video analytics and multi-biometrics that compare video images to a surveillance list. This system optimizes the use of in situ CCTV cameras to detect unusual situations and alert security agents or the police about suspicious individuals.
- Command control centre with use of secure communications to ensure transmission of information and videos.
- Intervention mechanism via a touch table connected to an operations screen integrating the capacity to project resources, issue alerts and mobilize forces.
- Perfected traffic camera systems allowing for warning about dangerous driving.
- Smartphone integrating a solution to help identify suspects by automatically comparing the suspect's digital finger or face prints with a central police database.
- Full system for collecting passenger data and assessing risks with a view to improving border management. This mechanism allows for detecting persons of interest by collecting and processing data from passenger name records (PNR) and advance passenger information (API - iAPI), intelligent data analysis and alert management.



**IDEMIA**  
**Albert TABET**  
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CCTV and cameras



Facial &amp; vehicle recognition



Communications &amp; cooperation

# LUCEOR

**Luceor, pioneer and leading provider of high-performance wireless private mesh networks.**

Luceor's WiMesh private networking solutions are designed for critical applications requiring a secured high level of services. They perform under the most demanding circumstances including fast mobility, in open, dense or changing environments, where traditional wired or wireless technologies are not suited.

Luceor WiMesh network deployments can be fix or mobile, permanent or temporary (hours/days/months), whether in context of events or emergency situations.

Luceor WiMesh's networks can seamlessly integrate with existing IT infrastructure and/or in full autonomy. Their flexibility allow multiple network and scalable topologies from fix point to point to highly mobile fully meshed architectures. They are fault tolerant and designed for simple and rapid deployments by non-technical personal.

With unmatched performances - up to 600 Mbit/s TCP - 1ms latency - total full multi-radios flexibility - handover-free even in fast mobility-.

## KEY FOR SAFE CITY APPLICATIONS:

Being able to integrate the explosion of new intelligent cameras and sensors of the Smart City as well as the new processes that comes with it such as temporary events, connected patrols or new generation of robots and drones without being stuck with the technical or costs connectivity limits of wired or cellular communications is critical to enable deployment of the 4.0 Safe City applications:

- CCTV / Urban videosurveillance;
- Events security: Sports, Culture, Government summits,...
- First-Responders Emergency Systems;
- Sensitive Sites Protection;
- Inter-building broadband connectivity (VoIP, data, video);
- V2X & V2V (Agents, Robots, Drones) broadband embedded connectivity;
- Real-time video-HD Ground-to-Train/Vehicles for public transports.

## MAJOR REFERENCES PROVEN:

- Events Security: France Ministry of Interior has standardized Luceor WiMesh technology as their standard for HD video in real time transmission (G7, Euro 2016, Le Mans, etc.). RAID (National Police SWAT Team) and CRS (National Police mobile units) are among the most prestigious users. Same for Belgium Federal Police and several Africa Governments;
- Industrial or logistics sites for their critical security and/or operations applications: Dubai Port World & CMA-CGM for Le Havre and Eurofos Ports, Eurogate-NTB Bremerhaven (4th European Containers Terminal) or Orano have chosen Luceor WiMesh;
- Cities & Metropoles: Over 200 cities for multi-services networks and for video surveillance applications. Nice and Le Havre Metropoles for their WiFi-HD and/or Real-time video-HD Ground-to-Train Communications for their Tramways.



**LUCEOR**

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# METRAVIB DEFENCE



**METRAVIB DEFENCE** provides defense and civil security actors with effective solutions for monitoring, detecting and locating threats. The systems developed by **METRAVIB DEFENCE** use the sound waves generated by the firing of arms to detect and accurately identify their location in real time. By reducing this urban violence, **METRAVIB DEFENCE** is helping law enforcement to improve community security and save lives.

## MAJOR ACTOR OF SMART AND SAFE CITY

### DETECT, ANALYZE, DECISION MAKING, SUPPORT

**METRAVIB DEFENCE**, created in 2019, is a subsidiary of ACOEM Group. Over 25 years in the service of world-wide security for the protection of people, sites and vehicles, **METRAVIB DEFENCE** has developed high-performance threat surveillance, detection and localization solutions for the defence and civil protection sectors. Our Combat Proven solutions are in more than 30 countries and are both certified ISO 9001 and ISO 14001.

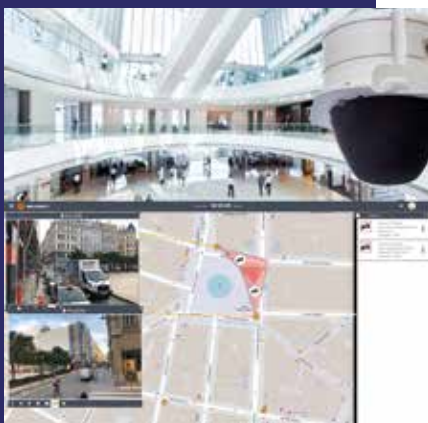
We rely on the expertise of our teams to offer our customers innovative, reliable, high-interoperability and value-added products that meet their evolving crowd management needs in terms of capacity protection functions for the « smart and safe » city. We are proud to be one of the key players in the safer city « Safe City ».

### ACOUSTIC GUNSHOT DETECTORS

**METRAVIB DEFENCE** in synergy with ACOEM group designs and integrates service solutions for the Safe City. The main activities are:

1. **A gunshot detector integrated into a rotating beacon** allows the Security Forces to better manage situations of urban violence. In case of a gunshot incident, the alert is displayed directly on the operator's smartphone which will therefore be able to better protect themselves before taking effective action and avoid collateral damage;
2. **A revolutionary multi-parameter sensor** designed to improve the ability of citizens to assess the risks associated with their environment by measuring air quality, noise pollution and detecting incidents such as gunshot, car accidents, etc.

This sensor improves the security of cities and sporting events against terrorist attacks thanks to a device for real-time detection of gunshots; coupled with video surveillance cameras, the immediate reporting of events allows the police to better prepare their response actions with a better understanding of the situation.



 **Metravib  
Defence**

ACOEM Group

**METRAVIB DEFENCE**

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CCTV and cameras



Facial &amp; vehicle recognition



Alert sensors



Sensor fusion



Law enforcement

# PHOTONIS

## HIGHLY SENSITIVE IMAGING SOLUTIONS

### DIGITAL CAMERA SOLUTIONS FOR 24/7 OPERATIONS

Photonis is a high-tech organization experienced in innovating, developing and manufacturing photo sensor technologies.

Photonis offers a variety of solutions to help address the security and surveillance needs of today's most critical scenarios. Operators looking for high performance imaging systems for long range surveillance (up to 20km) or a handheld device for closer monitoring, as world leader in night vision technology Photonis offers appropriate solutions for every scenario.

Photonis understands the need for reliable 24/7 surveillance applications under a wide range of conditions and offers a broad range of products based on technologies as day-through-night CMOS imaging or using EBCMOS (Electron Bombarded CMOS) or ICMOS (Intensified CMOS) technologies for specific applications.

### DIGITAL CAMERAS FOR CRITICAL SAFE CITY

Critical Safe City requires the best camera systems to prevent vandalism, secure critical operations and the safety of employees.

Photonis technology is used in many applications that require monitoring around the clock without interruption and without affecting normal operations, even in total darkness and in harsh weather environments.

#### Applications are:

- All weather and 24/7 operations;
- Perimeter security;
- Harbour and border control;
- Long range live observation.

#### Low light sensitive cameras for static configurations

Digital cameras for day and night detection, recognition and identification at any distance with interface possibilities with any video management system (VMS) and intuitive HMI for easy-to-use systems.

#### 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).

#### Portable long range imaging

High sensitivity provides a clear superiority to all long range systems and is implemented in SYT systems. It captures and broadcasts (live) video situations up to 20km and can be operated completely remote.

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

### PHOTONIS TECHNOLOGIES

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Digital Vision General Manager

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# PRYNTEC

CCTV and  
camerasFacial & vehicle  
recognitionPost-event  
managementOnsite  
automationPolice &  
investigations

**Pryntec is a security manufacturer and a video solutions software editor made to enhance professional performances: video becomes a support for decision-making processes.**

**Thanks to artificial intelligence integrated into our systems, our vision goes beyond security. Our innovations improve video to protect, help the environment's understanding and grow your activity's opportunities.**

## VIDEO HAS VALUE, LET'S GIVE IT A PURPOSE

### CUSTOMIZED SOLUTIONS ON DEMAND

Pryntec is a brand of TEB group, a French and independent company base in Burgundy for over 40 years. ISO 9001 certified, Pryntec makes a point to conceive and to develop made in France and high-quality products designed for public safety.

Equipped of its own R&D center and its French production site, Pryntec has the necessary expertise to develop customized solutions on demand according to its customers' needs. This service enables to configure and to set up solutions according to particular environments and to optimize the needed operations for specific security challenges.

### ENSURE PUBLIC SAFETY

Pryntec offers a full range of urban security systems to ensure cities peacefulness, understand the environment and optimize the management efficiency thanks to complementary solutions:

- Fixed, mobile or embedded solutions for CCTV or plate number recognition;
- Analysis solutions to get quantitative and qualitative statistics to understand an environment: people and vehicles counting; directional analysis; gender and age classification; brands, colors, genders, ages researches, and more;
- Retrospect investigation solutions to analyze all kind of standard video format and to automatically classify elements of interest like people, faces, vehicles, type of vehicles, colors, number plates, and more;
- Risk management solutions for live detections and real time notifications in case of perimeter intrusion, blacklisted people detection or abnormal situations like verticality loss or incivilities.



**PRYNTEC**  
INTELLIGENT VIDEO SYSTEMS

PRYNTEC  
RD 974  
21190 Corpeau - France





Facial & vehicle  
recognition

## SOLUTIONS FOR VEHICLES & CITIZENS CONTROL AND AUTHENTICATION

### VEHICLES PROTECTION SOLUTIONS

SURYS has developed solutions allowing the authentication and tracking of vehicles and their associated rights, visually or automatically via smartphone. First of all, the **Holocis™** system is based on customizable highly secure optical labels, applied on the vehicle and its related documents. Certificates, license plates and windshields are thus protected with a unique secure number that links them together. Then, **Wintag™**, which is an identification and traceability solution in the form of serialized or customizable labels that can integrate multiple digital functionalities. The label can contain information encoded in a data matrix readable only by controllers online or offline.

### CITIZENS PROTECTION SOLUTIONS

Setting up a trusted territory involves the implementation and deployment of effective security infrastructures. SURYS offers 2 technological solutions: **Authentiscan™** which allows an automated and fast authentication of national or international identity documents presented to the security forces. Available in mobile or fixed version, functionalities such as facial recognition or data storage can be added to this device. **Photometrix™** which allows the creation of a unique identifier (2D code) through a simple tool (smartphone) that can be deployed in the form of a physical or digital card. This code includes the proof of the photo as well as additional information about the citizen, allowing him to prove his identity and access the places or services to which he has access to. The control of these means of identification can also be carried out using simple tools such as a smartphone for example, without needing to connect to a network or a database.

# SURYS

Internationally renowned player, world leader in the security component market, SURYS offers an innovative range of optical and digital authentication solutions for the identity, vehicle, fiduciary and secure traceability markets. Its solutions have been adopted by over 130 countries in the fields of identity management, secure access control, border control and digital identity.



# SURYS

SURYS

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# THALES

With its special focus on urban security and protection of sensitive sites – airports, stadiums, government agencies, etc. – Thales offers a complete set of tried and trusted solutions that help security operators deal with the challenges they face. Thales serves the security market in 68 countries. The company has over 30 years of experience and provides security solutions for more than 400 operational sites worldwide.



CCTV and cameras



Facial &amp; vehicle recognition



Gunshot detection



Sensor fusion



Pattern analysis



Communications &amp; cooperation



Command centers



Data protection



Post-event management



Police &amp; investigations



Public information &amp; alerts



Personnel training

## HELPING CUSTOMERS MANAGE UNCERTAINTY WITH CONFIDENCE

Cities and regions around the world are competing in a globalised market to attract business and investment. Developing transport, energy and services infrastructure and ensuring the highest levels of security are crucially important for achieving these objectives.

Based on each customer's concepts of operations, Thales provides high-performance, scalable security systems designed to integrate with even the largest and most complex environments. All these systems are designed from the outset to evolve and adapt to new threats and regulatory requirements. Thales provides smart, sustainable and comprehensive security for cities and regions, operations, personnel and data, ensuring continuity of operations in all circumstances, while optimising processes and keeping costs under control.

### OPEN, SECURE AND SUSTAINABLE

Thales's new digital security platform is a game-changer, bringing operators the agility and intelligence they need to provide optimum security for each city or region. The Thales platform addresses the full spectrum of requirements, processing data from thousands of surveillance sensors. The solution helps anticipate incidents and resolve issues quickly and efficiently so that operators and security personnel can focus on the tasks where human expertise and judgement are the most critical. The Thales digital security platform allows information to be shared between all security stakeholders in a city or wider region.

The Thales platform is a key enabler of next-generation solutions for operators in charge of securing cities, sensitive sites and large events. Thales also provides advanced sensors for wide-area surveillance, CBRN threat detection, biometric control and other crucial functions needed for access control, videosurveillance and managing people flows and accreditations.

# THALES

THALES

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Command  
centers

# TOUTENKAMION GROUP

## TOUTENKAMION GROUP, A KEY MANUFACTURER FOR ALL YOUR MOBILITY PROJECTS

### DESIGN CAPACITIES, TECHNOLOGIES, TAILOR-MADE

Toutenkamion Group is a French group in full expansion with a turnover of 24 M€, and a workforce of 230 employees. It's the **European leader in design, manufacturing and transformation of truck cabs, mobile units and shelters.**

With our means, our know-how and our experience, **we support you from the study to the homologation/qualification of your solution.**

Thanks to our design capabilities and the variety of technologies we master, **we cover a wide range of operational applications.**

The aluminum or polyester composite technologies we use for our large size panels, combined with adhesive bonding or continuous welding assembly processes, ensure the **operational efficiency, light weight, strength and durability of our products.**

### MOBILE UNITS MANUFACTURING, TRUCK CABS MODIFICATION

**According to your needs**, we offer our **mobile units** in **several formats**: carrier, semi-trailer, shelter, extensible or not.

- **Command Post**, allows to be operational as close as possible to the crisis centre in order to control risk management.
- **Personal Reconditioning Vehicle**, allows to respond to the well-being of teams in contact during stressful interventions.
- **Mobile laboratory**, allows the analysis of various substances on site.

We work on the **adequacy of the cabin to the specific needs of the security and rescue forces: protection** of personnel thanks to approved roll bars, **reception of the whole team** by increasing the number of seats and enlarging the cabin, modification of the cabin to adapt it to the **on-board equipment...**

Security forces, rescue services and private operators must optimize their mobility to deal with risk situations: transport, safety, health and comfort of personnel in operation, mobile units as close as possible to the theatre of operations, ultra-fast deployment times, severe environmental constraints, autonomy. Our achievements grant innovative and quality solutions to answer these requirements.



27

**TK** Toutenkamion  
Group

TOUTENKAMION GROUP

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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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