

GENERATE'S innovative start-up review



BY GICAT

GICAT
The French land defence and security
industry association

2022
EUROSATORY







Generate à Eurosatory...

En 2017, le GICAT, pionnier dans l'écosystème de l'innovation française de Défense et de Sécurité, a lancé son programme Generate permettant de détecter des technologies jugées utiles pour l'industrie et de permettre à des start-ups françaises de comprendre et d'intégrer le monde de la défense et de la sécurité.

Aujourd'hui, pas moins de 60 pépites sont passées par notre accélérateur, offrant des solutions dans tous les domaines d'innovation : maintenance prédictive, cybersécurité, équipement du combattant, linguistique, nutrition, IA, drones et essaims de drones, soutien...

Generate crée des synergies, des liens entre ces start-ups et les mondes industriel, institutionnel, financier et scientifique. Il promeut leurs innovations, leurs savoir-faire tout en accompagnant leur développement. Certaines sont devenues des licornes, valorisées à plus d'1 milliard d'euros en bourse. Generate c'est 14 trophées et distinctions, 120 nouveaux emplois et plus de 47 millions d'euros levés.

En 2022, c'est autour du projet Ulysse que les start-ups se fédèrent pour favoriser l'export de leurs biens et services. L'objectif est de constituer une équipe France afin d'aller chercher ensemble des contrats à l'international... Affaire à suivre !

Depuis 2018, les start-ups Generate ont un espace dédié sur le salon Eurosatory. Pour la première fois cette année, le GICAT leur dédie une brochure spéciale.

Retrouvez ces jeunes pousses et toutes leurs innovations sur le pavillon et sur l'Eurosatory Lab (Hall 5A).

Generate at Eurosatory...

In 2017, GICAT, a pioneer in the French Defense and Security innovation ecosystem, launched its Generate program to detect technologies deemed useful for the industry and to enable these French start-ups to understand and to integrate the world of defense and security.

Today, no less than 60 brilliant treasures have passed through our accelerator, offering solutions in all areas of innovation: predictive maintenance, cybersecurity, fighter's equipment, linguistic, nutrition, IA, UAVs and swarms, support...

Generate creates synergies, links between these start-ups and the industrial, institutional, financial and scientific worlds, promotes their innovations, their products and supports them in their development. Some have become unicorns, valued at more than 1 billion euros on the stock market. Generate represents 14 trophies and awards, 120 new employments and more than 47 millions € of fundraising.

In 2022, with Ulysse project, start-ups companies gather around to encourage export. The target is to win abroad contracts... To be continued!

Since 2018, Generate's start-ups had a special space at Eurosatory exhibition. For 2022 edition, GICAT dedicates to them this special review.

Come discover and visit these sparkling start-ups at GICAT's pavillon and on Eurosatory Lab in Hall 5A.

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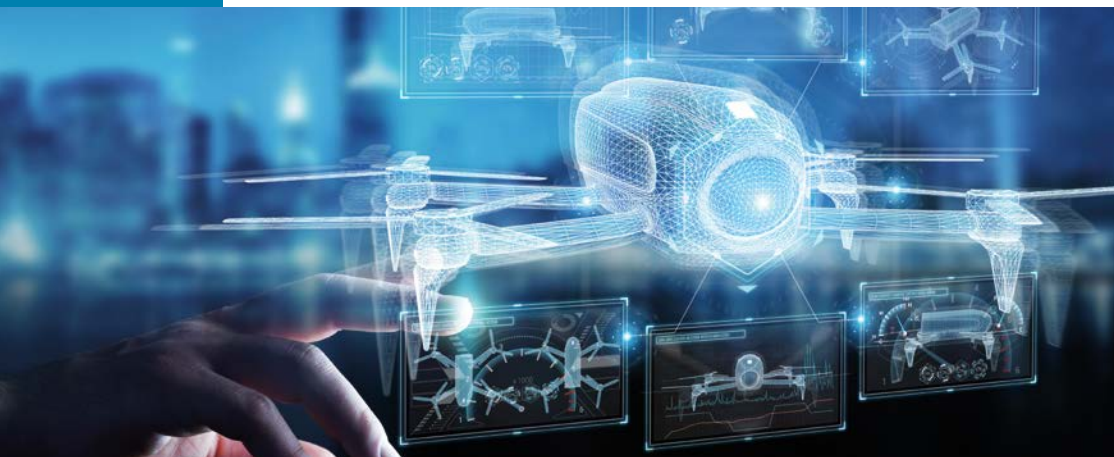
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AERIX SYSTEMS

AERONAUTICS / DRONES



AERIX SYSTEMS is developing a new aerial drone.

New aerial drone with disruptive characteristics in terms of speed (220 km/h max), maneuverability (extreme flight dynamics, erratic movements, flight and hovering on edge and inverted, negative g) and flight safety (storm resistance) thanks to a patented omnidirectional propulsion.

This breakthrough allows us to be very competitive in many drone markets and to open up new uses (construction, energy, offshore and defense).

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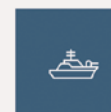
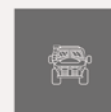
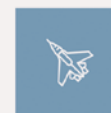
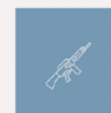
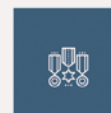
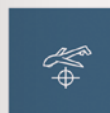
AERIX SYSTEMS

ARMTEK

SMART INDUSTRY 4.0

Power your
operationsFast &
Dynamic
UpskillingVirtual
Digital
AssistantKnowledge
Identification
& SharingTechnological
ReadinessA.I.
Knowledge
StrategySupport
OptimisationLeveraging
Knowledge
Creators

Operational from day one



ARMTEK empowers frontline operational staff to be operational from day one with an holistic approach across assets, knowledge and workforce.

Armtek software is an innovative solution - mobile app & cloud - that empowers frontline personnels to accelerate time to performance using dynamic documentation and communication tools that cover reporting, procedures, guidance, forms and training programs, generating in time reports, continuous learning, improved operational processes & procedures and knowledge sharing & capitalisation.

Power your operations: fast & dynamic upskilling, instant reports & monitoring, and full traceability.

Knowledge Identification & Capitalisation: identify & surface knowledge in your documentation and information flows.

Knowledge Strategy: bridge the gap between your organization's current knowledge capabilities and the capabilities needed to accomplish your strategic objectives.

Customer Support Optimisation: optimized support & increased services revenues

Knowledge Sharing: knowledge transfer & feedback loops.

Accelerate New Product Development: reduce NPD risks & time to market, and improved Continuous Product Discovery.

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BLACK LEAF

INDUSTRY



BLACKLEAF produces graphene and make it affordable for industry, 24 tons/year via a green process.

Through our knowledge and expertise, we enable industry to exploit the exceptional properties of graphene and make it a lever for competitiveness and decarbonation.

As a 100% coating or as a dispersion in all types of solvents/matrices, BLACKLEAF

graphene is revolutionizing industry by improving performance in various fields of application : ballistic & EMI shielding, ultra low friction, drag reduction, lighter structures, thermal and electrostatic dissipation, thermal footprint decharacterisation...

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CISTROM

SHOOTING TRAINING



CISTROM designs, produces, and markets solutions for shooting management and shooting training.

These solutions are aimed at rifle as well as mortar fire over several kilometers of distance.

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ELIKA TEAM

OPERATIONAL LINGUISTICS



ELIKA TEAM is the language specialist for crisis environments, defence, public or private security and aeronautics.

Our unique know-how represents a radical innovation, departing from existing generic solutions on the market.

We offer an innovative range of services and digital products to cover all the linguistic needs of Defense and Security: certification, training, training and technical linguistic assistance.

Our objective? Ensuring our institutional and industrial clients precise, effective and reassuring communication even in stressful and high intensity situations. Our response to the clients' needs is tailored and fits their numerous constraints such as

urgency, limited time, discretion, reliability and availability.

Here are some examples of our products: Linguistic audit and labeling Defense / security / aeronautics

Training and operational language training
Linguistic operational preparation

Linguistic support for industries seeking to export (translation, advice, support, training, etc...).

Crowd management, security for major event, close protection and crisis control.

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EOS TECHNOLOGIE

FIXED WING UAV UAS MANUFACTURER



EOS designs and manufactures fixed-wing Unmanned Aircraft Vehicle and Systems (UAV / UAS).

Our drones have a wingspan of between 1.5m and 12m, to perform ISR and ISTAR missions from 5 to 24h, carrying payloads from 0.5kg to 50kg. Specific payload integration on demand (SatCom, IMSI catcher, jamming, etc...).

EOS Technologie's ambition is to introduce in the drone sector the innovations brought by Tesla in the automotive sector:

electric propulsion, high performance and competitive price, ease of use.

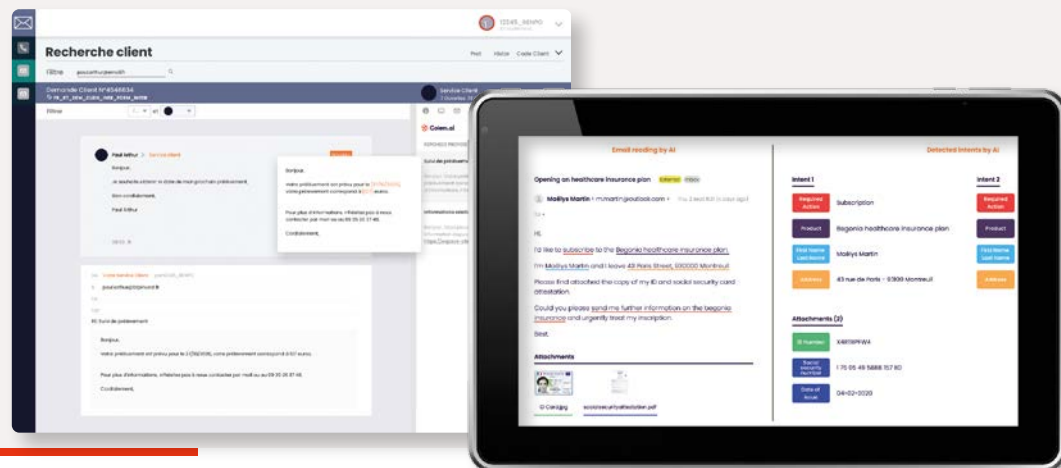
Our drones use composite materials and solid oxide fuel cell technology (propane) to be light and with a great endurance.

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GOLEM.AI

ARTIFICIAL INTELLIGENCE



GOLEM.AI is a French company founded in 2016 with the ambition of simplifying the daily lives of its customers by speeding up and making the processing of their documents more reliable.

Based on the work of universal linguistics, we have developed a 100% made in France, multilingual technology, which thus works without training or personal data.

It is explicable by nature and frugal in terms of energy expenditure.

Our language understanding technology responds to many automation challenges by reducing the growing number of repetitive tasks (document searching and reading, e-mail and messages categorization, etc...).

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GWAGENN

DEFENSE AND CIVIL SECURITY



GWAGENN specializes in research, design and development of methods, systems and materials in the fields related to the waves based on 3D data.

She works in the field of electronic warfare but her work also applies to naval and telecommunications. Our unique technology dedicated to electromagnetic warfare simulates and displays in real time, the wave propagation from a transmitter, depending on the field and its obstacles. This tech is accurate, and it is mobile, which makes it naturally intended for operational purposes. Our flagship product, Warn'Ops, will use this technology as an anti RC IED decision making tool which is patented, by displaying the safer areas around a jammer for instance. But Warn'Ops will also be useful

to optimize range and radio coverage or to make sure to be at the best position to neutralize a target. All of that, in real time, before or during the mission.

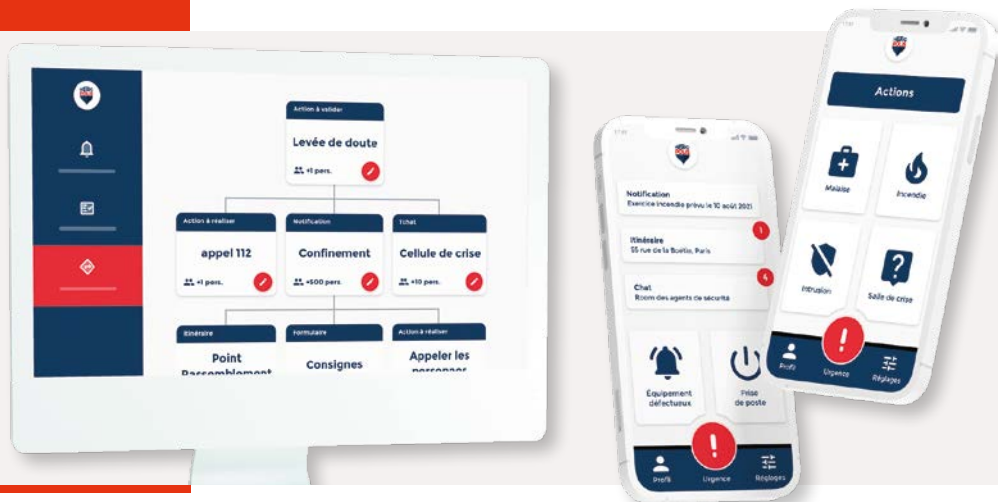
Taking the terrain into account to simulate how waves propagate also makes radio-frequency based geolocation more accurate. Our plug-in will help localizing a transmitter in real time and will display it in your system. This plugin will work with data provided by a network of static antennas or with data that are collected in real time by turning around the target's position.

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HEROPOLIS

SOFTWARE



HEROPOLIS is developing a SaaS + mobile platform enabling organizations (local authorities, companies and governmental entities) to manage their daily tasks, emergencies and crisis situations.

Its visual procedure editor allows the digitalisation of action plans in response to identified risks.

Following features are included : lone worker protection and incident reporting, chat management, form creation, MCQ type questionnaires, mass or group alerts, mobilization of a virtual crisis room, task assignment and follow-up, generation of logs and statistics for decision support, etc...

The Heropolis solution is also integrated with CrossCall smartphones to provide an ultra-complete and customizable offer for intervention agents, giving them all the tools they need on a portable accessory that frees up his hands during an intervention. Particular attention is paid to ergonomics, data security (secured French cloud), and user support.

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ICARUS SWARMS

DRONE SWARMS



ICARUS SWARMS provides Autonomous Drone Swarms for the Military, Police and Emergency Response Forces.

Our drone swarm kits are designed to respond specific usages:

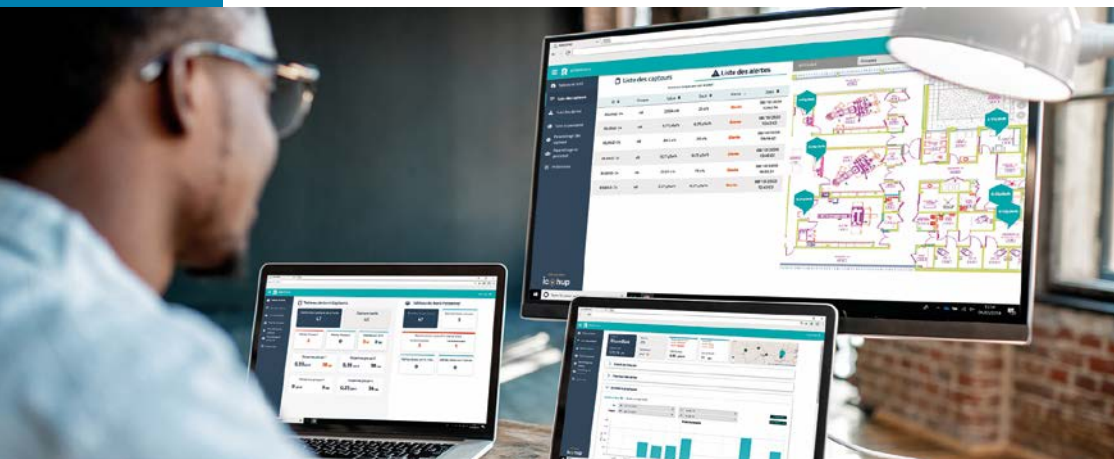
- People, vehicle search
- Radioactivity survey
- Infrared lighting
- Radio jammers
- Pyrotechny

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ICOHUP

DOSIMERTY/ RADIOPROTECTION



ICOHUP, a French company, develops measuring sensors and innovative software for the prevention of radiological risks.

We offer unique and connected solutions allowing real-time supervision of personnel exposure during interventions and training actions. We have fixed and mobile sensors, operational sensors, and detection solutions on drones/balloons/robots.

Available in SaaS or in local mode, our web platform provides a real-time vision of the situation. Indoor or outdoor mapping and customizable alert thresholds improve team monitoring and reactivity and also facilitate decision-making.

We have three major innovations: measurement performance, real-time connectivity, and cybersecurity.

- Real-time and remote supervision
- Geolocation of interventions
- Secure data collection and backup
- Easy installation
- Made in France

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INMIND-VR

DIGITAL, RESEARCH, HEALTH



The success of each field expedition, each piloting session or each mission is conditioned by a common factor: the agent facing the situation.

The frontier between success and failure depends on the human's behavioral adaptation abilities on the field, on his cognitive performances conditioned by his reaction to stress. The **evaluation of human behavior** is a challenge that InMind-VR can assist you in overcoming.

Resulting from 6 years of academic development in neuroscience and computer science, InMind-VR offers solutions to evaluate the human as a whole on neuropsychosensory aspects, by **integrating** physical measurements via body sensors (cognition

emotion, physiology, etc.), and behavioral parameters captured in virtual reality simulation scenarios (either imported or developed).

Based on our expertise in neuroscience, we propose solutions to assess stress, cognitive/mental load, or spatial navigation, which are essential for the monitoring and selection of field personnel (pilots, soldiers, high-intensity combat), or for the preclinical evaluation of civilian populations (humanitarian crises, refugees).

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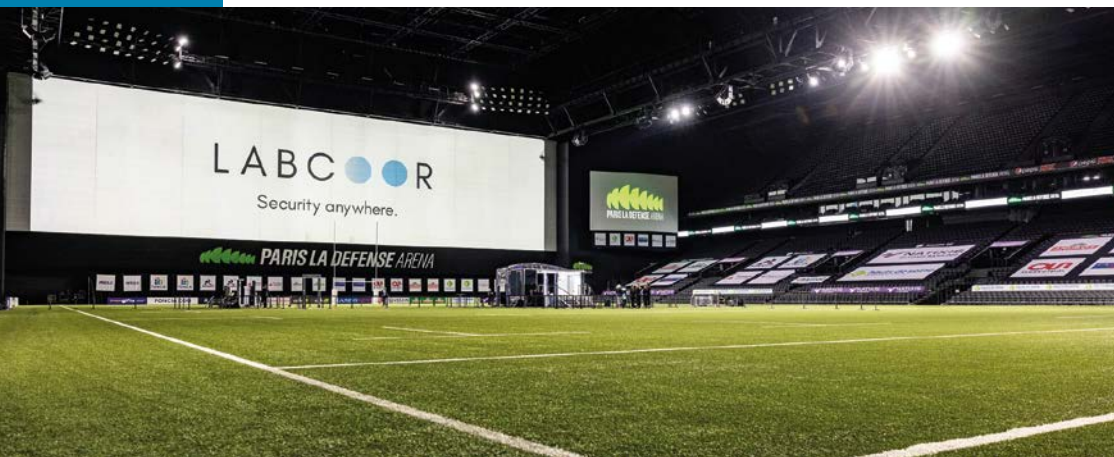
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LABCOOR

ACCESS CONTROL



The security anywhere : LABCOOR is the mobile access control solution combining innovation and fluidity.

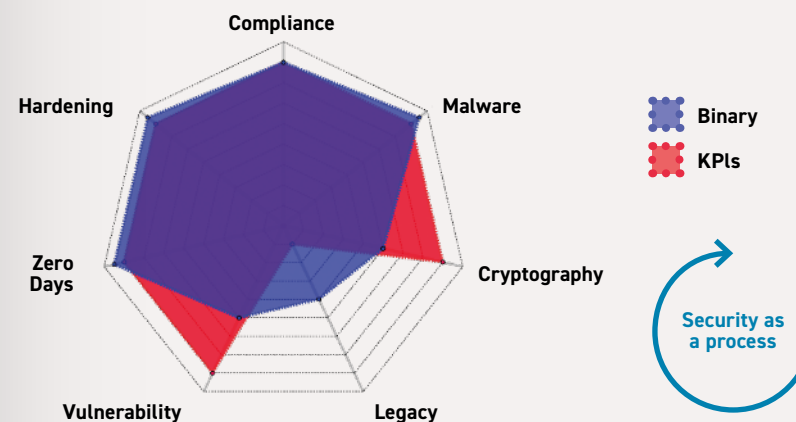
French company specializing in the design and industrialization of mobile and/or transportable solutions integrating innovative technologies and having as its core expertise the access control of the general public and personnel.

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LABCOOR
Security anywhere.

MOABI

CYBER SECURITY



Security Metrics

7 KPI

- SaaS
- Appliance
- Private Cloud



MOABI participates in the security continuous improvement providing automated audits of software security posture without source code.

As a Software editor, MOABI SAS provides a SaaS platform to automate audits of software, binaries and firmware for industrial corporations who want to assess their security posture before the operational launch of their new projects in defense (offensive-defensive).

This audit is based on 7 metrics representative of the best industrial practices. We don't need source code and we improve their security posture, by helping their internal and external software suppliers to implement a continuous progress plan.

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MOS NUTRITION

FOOD, SURVIVAL, HUMAN SUPPORT, HEALTH



MOS NUTRITION is the 1st French startup developing healthy and functional foods adapted to extreme conditions.

Our products are designed by nutrition experts and tested in the field by special units in hostile environments (land, air and sea).

MOS EnergyBall supports you in your activities thanks to the high quality of the ingredients and the functional nutritional balance of each recipe.

This protein snack naturally maintains your physical and cognitive abilities for several hours.

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NUMALIS

SOFTWARE



NUMALIS is a software editing company addressing the challenges around the reliability of AI systems.

Our goal is to help the adoption of AI in critical systems by providing the industry with both technical solutions and international standards which help with the design and validation of AI systems.

With Saimple tools, Numalis helps AI quality engineer to assess through formal methods on one hand the level of robustness of their model against specific real-world perturbations. This proof allows the designer of the system that in every case considered, the system will maintain its level of performance.

Numalis tools allow to visualize the impact of each input on the outputs. It is possible to detect the presence of bias in the training data or if the learned characteristics are incomplete or incorrect.

Its technological approach is complemented by a standardization one within the ISO/IEC subcommittee on AI, where Numalis is the editor of an international standard on the robustness of neural networks.

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numalis

saimple

ONEEX

ANALYSIS AND DOCUMENTARY ASSISTANCE



ONEEX is a French company, specialized in identity document control.

Our solution is able to help you detect false identity document in a simple and intuitive way. It also makes possible to digitalize an identity document to integrate it into a security and human resources management systems.

Oneex also proposes a service with an advanced and specific training to fight against identity document fraud.

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OTONOHM

BATTERIES



OTONOHM is developing a patented breakthrough battery technology.

That aims to simplify drivechains and powertrains (eliminating power devices and associated losses) in order to increase performance (+20%), lifetime (+50%), reduce weight and size, and improve safety. Electrochemistry agnostic technology. We present the first demonstrator of this patented technology, demonstrator that validated the benefits of our innovation.

In concrete terms, we propose to develop your mobile or stationary energy solution according to your specifications. A dynamic battery that can be charged on any voltage

or current directly without additional equipment and that delivers any DC or AC voltage without a converter or inverter. Our batteries are waterproof and generate much less heat than traditional batteries.

The applications are multiple:

- Traction batteries for all types of vehicles
- Electrification system for auxiliaries
- Renewable energy storage for off-grid sites
- Infantryman equipment
- Power supply for stationary UAVs or all types of devices.

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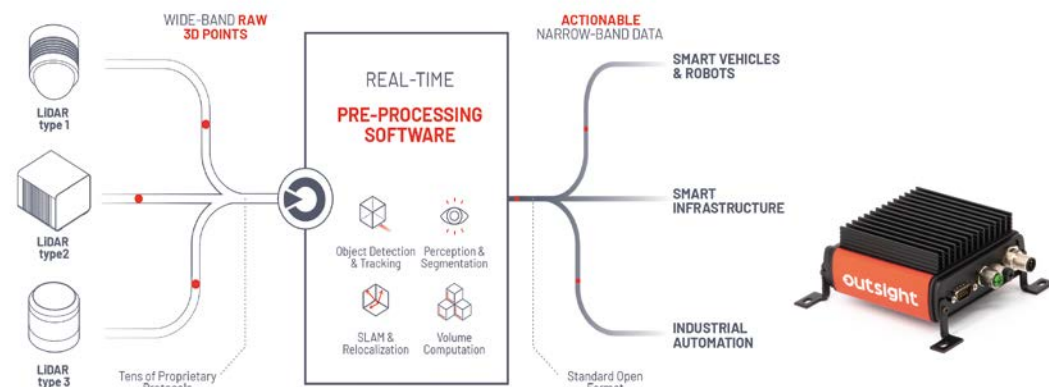
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OUTSIGHT

LIDAR-BASED 3D SPATIAL INTELLIGENCE



OUTSIGHT's mission is to make LiDAR-based Spatial Intelligence become Plug & Play, so it can be used by developers of applications, in any market.

We developed the Augmented LiDAR Box®, the industry's first software pre-processor for 3D data, which performs all of the essential features required to integrate LiDAR into any project (3D SLAM, Object Detection and Tracking, Segmentation and Classification). With any LiDAR.

Our international team of scientists and engineers operates out of Paris, Nice and San Francisco.

We believe that accelerating the adoption of LiDAR technology through simple and scalable pre-processing will significantly contribute to the emergence of transformative solutions that will result in a smarter, safer world.

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outsight

PANGOLIN DEFENSE

PROTECTION OF THE FIGHTER



PANGOLIN DEFENSE is a young startup formed in January 2020 by four associates whose ambition is to revolutionize the soldier's protection.

The engineers have patented several innovative and sovereign ballistic protection solutions that allow to offer a protection combining at the same time: performance against assault rifle ammunition, structural flexibility, competitive lightness and modularity.

Committed at the earliest stage to the Forces, Pangolin now plans to protect the infantryman in his personal equipment and also aims to protect any type of vector (vehicles, aircraft, ships, drones, turrets).

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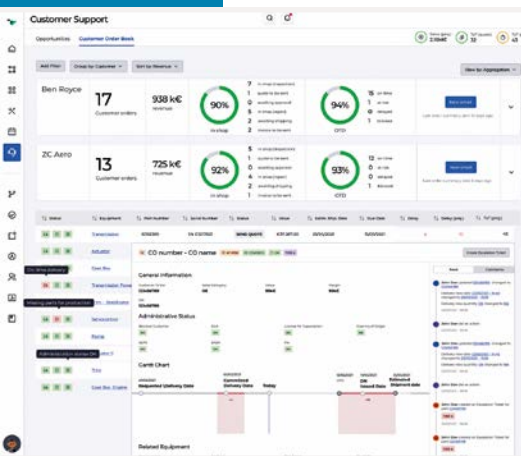
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PANGOLIN
D E F E N S E

PELICO

CONSULTING IN COMPUTER SYSTEMS AND SOFTWARE



PELICO is a new data-driven approach to supply chain management.

Get a digital companion for operational teams to spot bottlenecks and act fast to fight daily volatility and improve performance. Customer Support Room (CSR SCREENSHOT):

Pelico provides visibility on projected performance, bottlenecks as well as recommended actions to operational teams for their daily decision making.

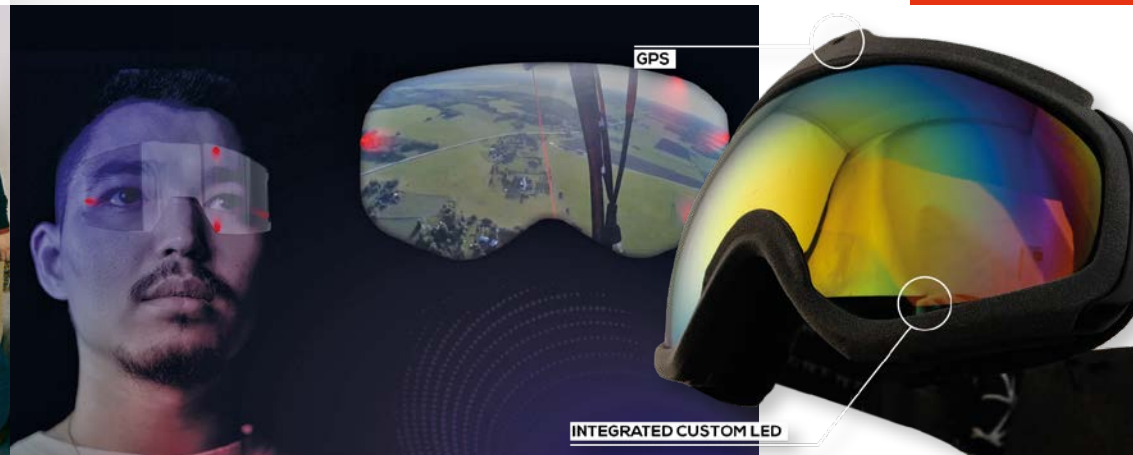
Production Control Room (PCR SCREEN SHOT): the material heatmap provides instant visibility on missing parts for complex equipment. It also suggests mitigation actions such as stock transfer orders, part reallocations or planning adjustments.

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PERIPHERAL

REFLEX SPATIAL ORIENTATION



PERIPHERAL makes vital information accessible in harsh environment.

For this PERIPHERAL develops interfaces based on subconscious mechanism.

PERIPHERAL appeals to our "second brain". Soldiers, firefighters, workers, athletes have their hands on their equipment and act in conditions involving smoke, vibrations, shocks, etc... The traditional means providing georeferenced information are not adapted to these constraints.

To allow the moving operators to stay focused on his task; PERIPHERAL uses vigilance mechanisms and the peripheral

vision zone to orient the gaze, movements, provide information, etc...

PERIPHERAL collects information from other systems (GPS, C2, etc...) and provides it during the action, with a solid and light technology that can be integrated into existing products (helmets, goggles, optics, etc...).

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PHOENIX EQUIPEMENT

INDIVIDUAL GEAR OF SERVICE MEMBERS



PHOENIX EQUIPEMENT is a start-up specializing in:

- The design and fabrication, serial or custom-made, of individual equipment for members of the armed forces, law enforcement and emergency services, such as AMPOULIOR, the first vial case with a lattice structure and unmatched properties, or our MMPC, a modular chest panel system for various equipments (compass, GPS, phone, etc...), easy to use thanks to its one handed opening system. And re-configurable with its removable flap.
- The conception of camouflage patterns, from our CAPADE range based on a proprietary omnidirectional pattern technology, to the modernization of existing patterns;
- B2B functional engineering and technical consulting about individual equipment: we are involved the CENTURION program. From our own solutions to participatory innovation and involvement in government programs alongside major groups, our expertise in proposing innovative solutions has already been praised several times, notably by the Defense Innovation Agency and the General Directorate for Armament.

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PROSHOCK

ENGINEERING / INFRASTRUCTURE PROTECTION



PROSHOCK is an engineering company specialized in protection systems for infrastructures. Our activity consists in studying, advising, researching, developing and implementing, security, ballistic and anti-blast solutions.

Proshock's R&D has developed a unique technology that allows an infrastructure to withstand an explosion generated by several hundred kilograms of TNT equivalent exploding at a very short distance.

Proshock has developed a range of turn-key solutions such as safe-rooms, bunkers, containment cells for hazardous materials, etc...

Our technology is already deployed around the world to protect strategic places such as embassies, military sites and private companies operating in conflict zones.

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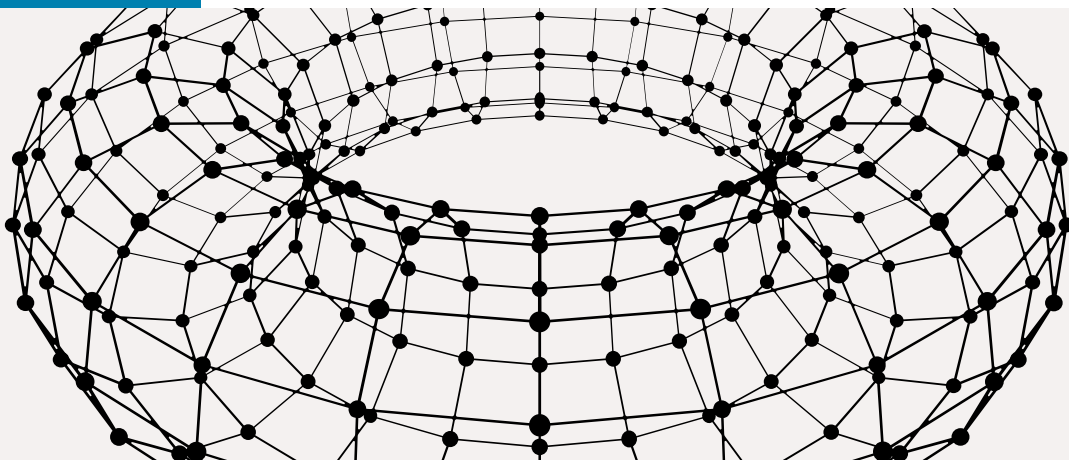
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PROSHOCK
SOLUTION DE PROTECTION GLOBALE
DES INFRASTRUCTURES

SAHAR

ARTIFICIAL INTELLIGENCE / SOFTWARE



SAHAR is a French technology company based in Paris whose purpose is to make data fully accessible and actionable.

Specialized in the collection, processing and visualization of massive data, it supports its clients in their data strategy and web application design. The company also owns state-of-the-art cyber defense software focused on open web analysis and social networks in particular.

Its value proposition is based on a flexible and innovative approach to data science. The company focuses on offering its services to public institutions. This specialization gives SAHAR a unique DNA: that of a company committed to the defense of French technological sovereignty.

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TRAAK

GEOLOCATION DATA COMMUNICATION EMERGENCY COMMUNICATION



TRAAK is a French start-up specialised in bespoke location and physiological trackers for demanding environments.

With expertise in location tracking (outdoor, indoor, relative) and communication (BLE, UWB, GSM, RF, sat.), we ensure that high quality data is generated and communicated where it is most needed. TRAAK develops wearable sensors that have the capacity to communicate real-time biometric, environmental or positioning data and tools to analyse, process and model the generated data. Decision-making in demanding work environments is therefore facilitated.

Conducting its R&D and production 100% in-house and in France, enable TRAAK to offer its clients high flexibility and confidentiality,

which is especially important for markets that we address such as Security, Defence, Industry (construction, mining, energy) and Health markets.

From this in-house customised R&D and discussions based on the needs of our users, two solutions have resulted:

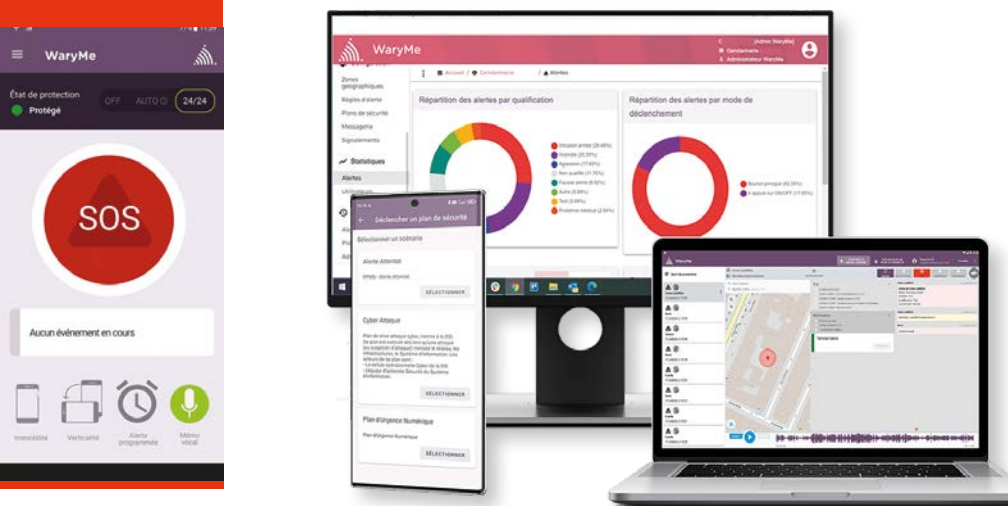
- **DeepCom:** an innovation that allows the bi-directional transmission of data from a deepindoor/underground position to and from the surface
- **Cavalry:** a smart fabric that alerts backup and first aid automatically if pierced by bullets, knife or sharpnel.

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WARYME

PUBLIC AND PRIVATE SECURITY



WARYME designs and develops a personal safety mobile application, to improve users security in companies, industries, transports, public places and tomorrow the whole smart city.


To address the major risks (terrorism attack, violence, industrial accident or even natural disaster), WaryMe provides an all in one mobile application, integrating alerting, crisis management and mass notification features. WaryMe creates a direct link between users and the local safety authority and allows users to efficiently and simply report a threat or an emergency situation, to the nearest safety authority.

By becoming the digital and mobile support for these crisis management plans, WaryMe optimizes processes and communications in crisis situations. It's all about understanding, deciding and reacting faster.

By involving your employees in the company's security system, WaryMe creates a direct link between users and the team in charge of their security. This contributes to the development of a culture of risk and collective security.

WaryMe is a modern and innovative tool to meet new security challenges. Using mobile technologies (smartphones and mobile Internet), our solution is flexible and scalable. It adapts over time to changing threats while reducing the cost of strengthening security.

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Votre sécurité à portée de main



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