

# EDEN

DEFENSE SECURITY SAFETY CLUSTER

— —  
FRANCE

## SOFINS 2023

Pragmatic innovation

in line with the needs of special forces  
by the SME members of the EDEN Cluster



## SOFINS

10 ANS

2013 • 2023

*28 – 30 march 2023 – Camp de Souge (33)  
Organised by Le Cercle de l'Arbalète*

## PRESS RELEASE

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*Ludovic Ouvry, president of the EDEN Cluster*

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MORIN – NOVADEM – OUVRY – PGM  
PRECISION – SYSNAV – TECSUP – TELEFLOW  
– TITAN DEFENSE – VERNEY CARRON / LEBEL  
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## EDITORIAL



### ***The pragmatic innovation of EDEN SMEs in line with the operational needs of special forces***

*by Ludovic OUVRY, president of the EDEN Cluster*

#### **Why exhibit at SOFINS under an EDEN pavilion?**

First of all, let's remember that EDEN has been participating in SOFINS since its creation in 2013. A particularly rich forum for our companies!

With 15 years of experience, the EDEN Cluster - the national association of SMEs in the defence and security sector - enables its members to exhibit under a common banner and benefit from the strength of numbers. In addition to the environment of trust provided by the EDEN brand, these shows are an opportunity to create concrete synergies between members and even to present common projects. As partners of the French and foreign special forces, EDEN exhibiting companies will take advantage of SOFINS to exchange and promote their offers at a time of major changes within the armed forces.

#### **Why are the solutions offered by EDEN SMEs to special forces relevant?**

With their capacity for innovation and their adaptability, our SMEs therefore play a crucial role in the vitality of this economic fabric, a role that is constantly being reaffirmed politically. Indeed, in the context of the definition of the 2024-2030 Military Programming Law (LPM), the 2022 National Strategic Review proposes to adapt to

future conflicts by developing a "war economy" that mobilises all the resources of the Nation.

This objective can only be based on the flexibility and agility of our SMEs and ETIs, companies that evolve and are built as close as possible to the needs of the operational staff and for which innovation is a strong marker.

In connection with the special forces, the EDEN companies have been able to set up flexible exchange processes allowing the operational needs to be matched with the technical and R&D teams of our companies. There is no doubt that the marketing of new products for the COS gives our companies increased visibility, including internationally, a real legitimacy, and contributes to the rise in competence of our design offices.

As a national cluster of defence and security SMEs, we bring together companies from a wide variety of fields. The companies exhibiting at this 2023 edition of SOFINS therefore have diverse, innovative and adapted products to present to you.

**We therefore encourage you to come and discover the range of innovative products of our 18 exhibiting SMEs. We look forward to seeing you on our pavilion!**

## Companies and their stands

For this edition, 18 EDEN members are exhibiting:

ASI	B28 EDEN
BRC	B21-C22
DELAIR et DELAIR MARINE	B22
ELISTAIR	B26
GEORGES MORAND TECH	A46
INPIXAL	A23
MERIO	A19
METRAVIB DEFENCE	A29
MORIN	A25
NOVADEM	B19-C20
OUVRY	B23-C24
PGM PRECISION	A21
SYSNAV	B3-C4
TECSUP	B24
TELEFLOW	A56 MICHELIN
TITAN DEFENSE	B25-C26
LEBEL by VERNEY CARRON	A36
WILDSTEER	A21 PGM

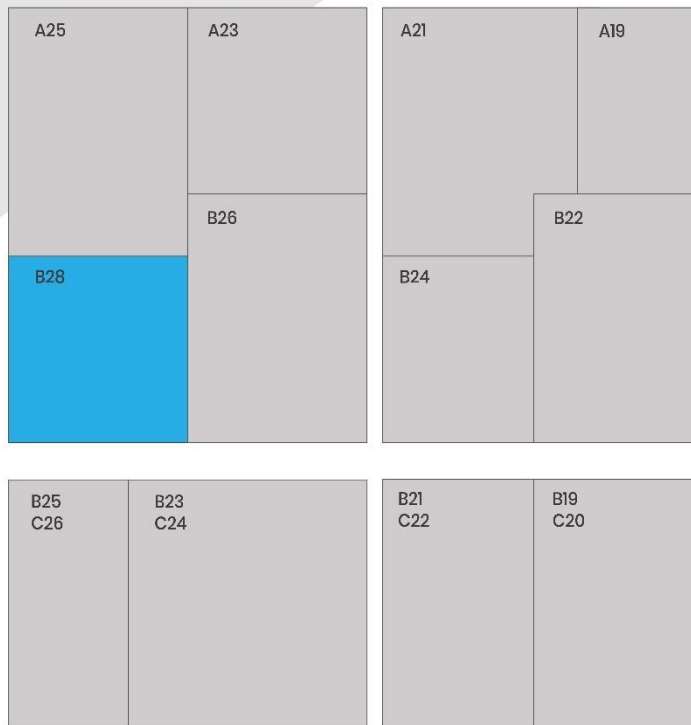
## Map of EDEN members at the exhibition

# EDEN

DEFENSE SECURITY SAFETY CLUSTER

FRANCE

Innovative  
French  
SMEs.



### STAND EDEN

B28



ASI



### PAVILLON EDEN



BRC  
B21-C22



DELAIR  
B22



ELISTAIR  
B26



INIXAL  
A23



LEBEL by  
VERNEY CARRON  
A36



MERIO  
A19



MORIN  
A25



NOVADEM  
B19-C20



OUVRY  
B23-C24



PGM PRECISION  
A21



TECSUP  
B24



TITAN DEFENSE  
B25-C26



WILDSTEER  
A21



### HORS PAVILLON EDEN



GEORGES MORAND TECH  
A46



METRAVIB DEFENCE  
A29



SYSSNAV  
B3-C4



TELEFLOW  
A56



AVITAILLEMENT



TELECOMMUNICATION / NAVIGATION / GEOLOCALISATION



SYSTEMES ET COMPOSANTS POUR ENVIRONNEMENTS DURCIS



RENSEIGNEMENT / INTRUSION / PROTECTION DE SITE / DETECTION



LOGISTIQUE / SERVICE / MCO



DRONES / ANTI-DRONES



CYBERSÉCURITÉ / BIG DATA / IA



FONCTION COMBAT / NEUTRALISATION



ENERGIE / INGENIERIE / TEST / QUALIFICATION



EPI / NRBC / ENTRAINEMENT / FORMATION



SOFINS

10 ANS

2013 - 2023

## ASI INNOVATION

**Stand:** B28

**ASI Group** is a French group that comprises two separate companies. The first of the two companies, **ASI Innovation**, based in Reims near Paris, was created in 2010 by a team of high-level specialists all coming from the aeronautical field. ASI Innovation has continuously increased its skills in the field of development and integration of simple or complex systems on all types of fixed or rotary wing aircraft.

Today, ASI Innovation is one of the few French groups to have obtained, from the highest European aeronautical authorities (EASA), the precious "DOA PART 21 J (Design Organisation Approval)" which allows it, with a constant concern for quality and seriousness, to certify to the European and American authorities, all the tasks of design, development and integration of complex systems on fixed or rotary wing aircraft.

The ASI Group expanded its competences by creating another company "**ASI Aviation**" in 2014. ASI Aviation is in charge of the development of the famous F406 (nearly 80 aircraft worldwide, many of which are operated as mission, surveillance and maritime patrol aircraft).

Between the two companies, the ASI group has 4 approvals issued by the EASA which allow it to design, manufacture, certify, install and validate aircraft modifications, to manufacture and certify spare parts for all types of aircraft, and finally to maintain aircraft. The group's approvals are specified below:

- DOA EASA Part 21 J 482
- DOA EASA Part 21 J 064
- Part 21 G Production agreement  
FR.21G.076
- Part 145 Maintenance repair overhaul  
(MRO)  
FR.145.536
- FRA-145-0059 Military Accreditation



**ALUCO - F406 aircraft** equipped for multi-mission :  
Visible, infrared, near infrared airborne  
photography / Mapping / Detection, instant  
geolocation / New avionics suite

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## BRC

**Stand:** B21-C22

BRC has been a partner for more than 30 years of the largest French industrialists in the defence sector, and of key players in internal security (GIGN, DCIS, ERIS, etc.).

The company specialises in the design and manufacture of customised housings to protect equipment from the most severe constraints:

- Climatic (extreme temperatures, relative humidity, salt spray, etc.)
- Waterproofing (IP67-IP68, water - sand - dust)
- EMC (dissipation from -30 db to -60 db as standard)
- Mechanical environment (drops, shocks, vibrations, explosions,...)

BRC housings are deployed in all theatres of operation (armoured vehicles, submarines, frigates, aircraft, helicopters, deserts, etc.)

During Sofins 2023, BRC will present the extension of its Xtra Lucem casing range with the following versions:

- High resistance (ability to withstand NIJIIIA type ballistic perforations)
- Fire (maintaining an internal temperature of 40° in the casing despite a 650° fire)
- In addition to the classic Xtra Lucem housings (+30% in strength and -50% in composite mass) presented at Sofins 2021.



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## DELAIR

**Stand:** B22

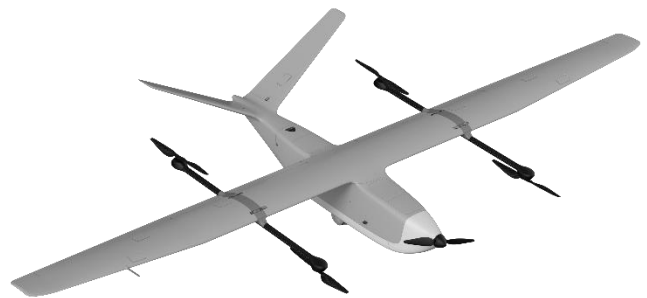


With several thousand platforms sold in eleven years of activity, Delair has a rare know-how and a central position in a rapidly consolidating segment and aims to become the European leader in fixed-wing UAVs. Since its creation in 2011, Delair has acquired expertise in the entire value chain of mini-UAVs, including integrated software for automatic piloting, real-time processing of video streams, ROIM and ROEM payloads, secure air-ground communications, mission preparation and tracking systems on the ground, as well as software for automated image processing.

Since 2022 the Delair Marine BU enables the group to offer solutions for underwater ISR missions.

### **New Drone Delair : le DT46 -25kg-7h30-150km-**

The new Delair UAV revolutionises the range of electrically powered mini-UAVs by combining the advantages of a VTOL with those of a very long endurance fixed wing. The main advantage of this drone is in its modular architecture. It can be converted from a fixed-wing configuration to a VTOL system in just 15 minutes in the field without special tools. A hydrogen version will be available soon.



### **DT26 -16kg-3h-50km-**

A stealthy and robust drone. It facilitates long-range tactical approaches and secures sensitive areas over long distances.

### **UX11 -1,4kg-80 min-10km-**

A discreet, easy-to-deploy, lightweight and fully automatic UAV for high-precision tactical mapping. It allows, among other things, to capture aerial photos in real time by day or night and transform them into maps for reconnaissance and targeting.

This product is referenced at the UGAP and has the UAF label and C6 certification.



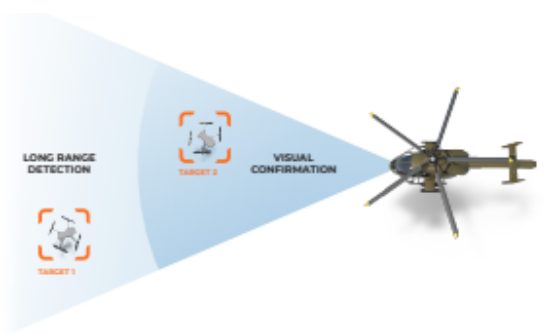


## Naval structure inspection drone :

For maintenance missions in operational conditions.

Innovative scanning system, visual, thermal and Lidar cameras for the inspection of mobile vessels (hull and mast) allowing the optimisation of maintenance: costs, planning, downtime.

This system allows, among other things, the automatic detection and classification of defects and classification (types of corrosion, etc.). Les vols sont entièrement automatisés et sûrs (plan de vol automatique, évitement automatique, évitement des obstacles réglementaires avec les zones portuaires).



## D-CAS : Drone Collision Alert System

D-CAS is an on-board system on a helicopter (Puma) for the detection and identification of cooperative or non-cooperative UAVs with a mass greater than 250g. The objective is to inform the pilot about the time to impact. Depending on the evolution of the distance over time, the direction of the intruder and the time to impact for the aircraft can be deduced.

## GNSS Denied

The development of new methods to carry out critical missions in environments with GPS constraints and prohibitions.



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## DELAIR MARINE

**Stand:** B22



Delair Marine has over 6 years experience in designing solutions for underwater data collection and analysis, using the latest robotics, software and artificial intelligence technologies.

### Seasam

A product that allows the inspection of the seabed and submerged structures as part of underwater reconnaissance missions, with the following performances: 100 m depth, 4 h battery autonomy and a modular configuration. Its Hullscan version allows the realization of inspection missions of ships' hulls with autonomous maintenance of position, 2 speed profiles as well as the capacity to pilot in 1m/s current.



**It is associated with its own cloud system.**

Delair Cloud provides data visualisation, automatic report generation, standardisation and global management of fleet-wide reports. In the context of a ship inspection, it also allows the detection of defects and the scoring of biofouling.

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## ELISTAIR

Stand: B26



Founded in 2014 and with offices in Lyon, Boston and Abidjan, Elistair designs and manufactures **wired drone solutions**, for observation, civil protection and tactical communication missions. Elistair's products are used by the armed forces, law enforcement, civil security and private security in more than 70 countries.

Elistair is the world's leading manufacturer of wireline UAVs, designing and manufacturing automated wireline systems for perimeter protection, border surveillance and event security. With its patented micro-wire technology, Elistair solves the problem of drone autonomy. Connected to a generator or to the mains, the micro-wire powers the drone continuously, allowing it to operate without interruption for 50 hours, compared to an average of half an hour for battery-powered drones. It also enables secure data exchange between the drone and its operator, effective against hacking and interference. Elistair is targeting the defence and homeland security sectors with two product ranges designed and manufactured in France: an automated wired drone (ORION 2) and wired stations that can transform a standard drone into a wired drone.

Elistair's customers include the United Nations, the French Direction Générale de l'Armement, the UK Ministry of Defence, the US Army, the New York State Police, the Belgian Police, the Spanish Police, Vodafone, Thales, Petronas.



Orion UAS

Designed for long duration flights, the **ORION 2** is an automated and intelligent wire drone capable of flying at a height of 100m for 50 hours, thanks to its secure architecture and its resistance to degraded weather conditions (IP54). It acts as an aerial mast and meets the needs of military applications such as perimeter protection, tactical telecommunication devices and border surveillance. Its micro-wire provides continuous power and secure high-speed data transfer.

Weatherproof, the ORION 2 includes multiple redundancies and emergency procedures allowing the operator to focus on the mission and the data received, while greatly reducing the risk of human error.

The ORION 2 is a complete system that is easily transportable in two pelicanses. The system consists of the Orion 2 UAV, the Safe-T 2 wire station and the Ground Control Station (GCS).



**Safe-T 2** – The First Intelligent Wire Station for Drones

**SAFE-T 2** is a robust, automated wire station compatible with over 20 drones on the market, including the DJI Matrix 300. With 100m of micro-wire and resistance to degraded weather conditions, it provides hours of observation and surveillance capabilities.

The system is particularly suitable for day-night aerial surveillance and telecommunication devices (fibre optics, 4G, Wi-Fi, radio).

Designed for the most demanding missions, the SAFE-T 2 is IP54 compliant and has been approved for captive flights by an official body, the DGAC (French civil aviation). It has been successfully deployed by government agencies and industrial companies on 5 continents.

**LIGH-T 4** is a compact, portable, wired drone station. Quickly connected to a wide range of drones such as the DJI M300, it provides continuous aerial observation capabilities for first responders, law enforcement and drone operators.

An easily transportable and simple to use wired system, the LIGH-T 4 allows you to increase the flight capacity of your drones by several hours with the added security of its wired attachment.



**Ligh-T 4** – A Robust Wire Station for Drones



**L'Orion HL**

**The Orion HL** is based on the Orion system already used by military and security forces in more than 30 countries for surveillance and intelligence missions. This new version of the system benefits from the same level of automation, robustness and ease of use. Capable of carrying payloads of 4 kg at 90 metres and 5 kg at a height of 50 metres, for flight times of 50 hours, the Orion HL can be deployed in a few minutes and is easily transportable.

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**Stand:** A46

Georges Morand has specialised in tactical gloves, fighter pilot gloves and special forces gloves since 1946 under its dedicated GM-TECH brand. The gloves are produced in France in the company's factory, located in the same place as its research centre.

Using traditional glove-making techniques, the company's gloves protect their users while remaining thin, flexible and tactile.

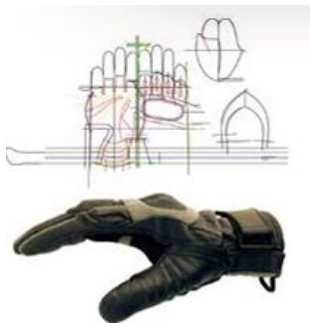
The company has co-developed a rope glove with the French special forces, specifically adapted to their needs, tactile and compatible with the handling of weapons. This product avoids the need to carry two pairs of gloves on a mission. Similarly, gloves for fighter pilots are developed and tested in close cooperation with the air forces of several countries. The company also produces discreet anti-cutting gloves for the protection of VIPs.



The glove has been specifically developed for and with Special Forces practising fast rope or heli-towing in temperate or cold zones. This product allows the mission to be continued without having to change gloves and thus avoid double carrying.

It is equipped with an anti-abrasion and anti-heating protection on the palm, an integral anti-cut protection and a technical anti-shock D30® protection on the back of the hand. It represents the best compromise between protection and lightness.

GM Tech is one of the only brands on the market to offer such innovative and highly technical products (tactile anti-cutting gloves, tactile rope descent gloves, etc.) in order to better meet operational needs for the proper execution of their extreme mission in the field.



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## INPIXAL

Stand: A23



INPIXAL develops real-time embedded video processing solutions for defence and security. The company offers algorithms for stabilisation, image quality improvement, mobile object detection, intrusion detection, counting and object identification.

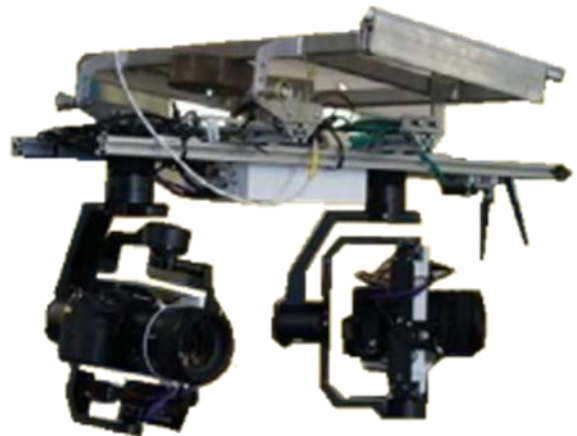
INPIXAL also supports the porting of algorithms to embedded equipment, robots, aerial and maritime drones, turrets, cameras, long range observation systems and video surveillance.



EDNA 260

**EDNA 260 M** : INPIXAL presents a 10" bi-spectral turret with Full HD visible camera and cooled infrared camera with zoom, laser rangefinder and laser pointer. It integrates image enhancement, tracking and object classification capabilities. This ISR (Intelligence, Surveillance and Recognition) dedicated turret is designed for use in maritime environments. It has 4-axis stabilisation and is compatible with NATO STANAG standards.

**Optronic solutions with embedded intelligence:** INPIXAL develops optronic solutions with embedded real time image processing on customer specification. INPIXAL has recently developed a self-steering turret for UAVs, a video-tracking antenna pointing system, an electrical cable recognition and tracking platform... INPIXAL is at your disposal to discuss your projects.



Suivi de câble

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## MERIO

Stand: A19



Merio designs payloads for all types of carriers: UAVs, autogyros, microlights, aeroplanes, helicopters, aerostats, land vehicles, ships, in particular high-performance gyro-stabilised turrets weighing less than 10 kg, the TEMIS multi-sensor range, as well as a complete image operator chain consisting of a VIPER image processing module and GCS video and mapping software. Merio solutions are used for the following applications:

- Observation, intelligence
- Border control
- Civil security, human rescue
- Surveillance of sensitive sites and infrastructures / major events

Merio's customers include the French Ministry of Defence, Thales and Nexter, and more than 50% of its turnover is generated internationally. Merio integrates high-resolution sensors and processors for embedded AI.



### TEMIS Marine Stabilised Gyro Turret

This IP66 rated gyro turret offers high performance at a very low weight of 6kg. Indeed, with its uncooled IR camera coupled with a motorised bifocal 33/99mm lens, its daylight channel with a x30 optical zoom and a compact rangefinder with a NATO range of 5200m, it is a long-range surveillance tool. With its integrated image processing (automatic detection and video tracking), it offers exceptional day/night observation quality for its size and allows small boats to be equipped with a complete and compact system.

### TEMIS XS Super Compact Gyro Stabilized Turret

The TEMIS XS is distinguished by its weight of less than 300 grams. Two versions are available and interchangeable, equipped with a Full HD day channel or a 35mm VGA IR channel. These small turrets are ideal for drones weighing less than 2kg MTOW to give them an observation capability.



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## METRAVIB DEFENCE

Stand: A29



Throughout the world, Metravib Defence provides defence and civil security actors with a range of innovative, high-tech, combat-certified products and services with advanced expertise in tactical situational awareness and enhanced force protection. Metravib Defence has developed systems that accurately detect and locate gunfire in real time from generated sound waves. Metravib Defence thus contributes to improve the protection of men, fixed installations and mobile platforms in hostile environment as well on the national territory as abroad.

With 30 years of experience working with armed forces in more than 25 countries, Metravib Defence is a renowned global brand and a recognised leader in the defence industry. Metravib Defence has developed a unique understanding of vibration and acoustic phenomena and a deep knowledge of the military.

As a trusted partner and provider of data fusion solutions, Metravib Defence offers sensors powered by artificial intelligence and interoperable for self-protection of different platforms. Metravib Defence maximises the value of information and digitisation of the battlefield, enabling its customers to make informed decisions based on accurate critical data to improve their operational capabilities and enter the era of collaborative combat.



### **PEARL, protection of the infantryman**

PEARL is a weapon-mounted system that accurately locates, in real time, small- and medium-calibre weapons fire based on the sound waves generated by the shot. This version is designed for the protection of soldiers, sentries or VIPs



### **PILAR V, vehicle protection**

PILAR V is an intuitive and easy-to-use acoustic fire detection system. PILAR V is designed to be mounted on any armoured vehicle. The information is displayed on the BMS available in the vehicle.



## Other products in the range:

### **PILAR VERSION SOL, protection of sensitive sites**

PILAR VERSION SOL is an acoustic gunshot detection system designed to protect sensitive sites, military bases, checkpoints, embassies and other areas or buildings. It can also be used to secure a special event (VIP visit, meeting of heads of state, etc.). PILAR VERSION SOL communicates in real time the GPS coordinates of the threat on the map.

### **Small Vehicle Fire Indicator (SVFI), VIP and law enforcement protection**

Metravib Defence SFVI is an acoustic gunshot detection system designed for VIP and law enforcement protection that can be mounted on any type of civilian vehicle. The SFVI provides in seconds the origin of the shot in case of an attack and helps law enforcement agencies to improve the safety of the community.

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## MORIN

**Stand:** A25

ETS MORIN is a company that has specialised for 47 years in the manufacture and distribution of materials and equipment for dog units.

As the European leader in this niche market, they offer a catalogue of more than 6,000 products covering all the needs of a unit including operation, maintenance, dog housing, training, products for intervention and missions, food, protection, but also vehicle fittings and field equipment.

### **Everything a dog unit needs is available from MORIN.**

Through a subsidiary of their group, Morin also has the possibility to sell dogs trained for detection or assault intervention. Their team, which has a background in the field of canine technology and/or special forces, is also able to provide training to guide you in the use of their products.

### **Choosing MORIN is the assurance that you are dealing with dog-handling specialists.**

The MORIN team travels internationally to train personnel in your country.

We work with all the K9 units of the French Special Forces (CPA10, Cdo Hubert, Cdo Keiffer, 1e RPIMA, RAID, GIGN, BRI...) and a large number of international units either directly or via a network of distributors in more than 25 countries.



Protective helmet with on-board camera for day and night vision.

Allows you to effectively protect the dog from head aggression and to film and follow the dog's progress in real time, while giving him remote commands via a system at ear level

More than 4h30 of recording possible, real time vision without any latency, transmission via an encrypted COFDM, 800 m. range.

### **K9 Vision System Helm OPS**

This type of product makes it possible to visualise what the dog sees, to hear what it hears and to give it commands from a distance in order to ensure its safety or ask it to neutralise an individual.

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## NOVADEM

Stand : B19-C20

*Novadem*

Novadem specialises in **aerial robotics**. For 15 years, the Aix-en-Provence company has been designing, producing and marketing UAVs intended for the civilian and military markets with complete industrial control guaranteeing the highest level of MADE-IN-FRANCE quality. Its solutions are now used throughout the world and are among the rare "Combat Proven" micro-UAVs.

**At SOFINS 2023, Novadem will present the evolution of its NX70, NX100 and NX160 range.**

The **NX100** benefits from all the technologies of the NX70 while incorporating a new daylight and thermal imaging capability. The latter enables it to perform deep reconnaissance and identification missions with an unparalleled level of performance. Like the NX70, with which it shares the same ground station, the NX100 also features the NXWIRE power supply for uninterrupted flight.

The **NX160** is the latest drone solution to expand Novadem's range. With its increased carrying capacity, thanks to its 2kg payload, the NX160 further broadens the spectrum of Novadem UAV missions and opens the way for the carrying of specialised sensors. This is reflected in the integration of the AP4C+ chemical detector from PROENGIN or the SPIR-EXPLORER radiameter from MIRION.



**NX160**



**NX100**

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## OUVRY

Stand : B23-C24



Systèmes de protection NRBC

Ouvry is an industrial company created in Lyon in 2003 by Ludovic Ouvry. It specialises in the design, engineering, production and maintenance of personal body and respiratory protection systems and CBRN decontamination systems. The company is primarily specialised in the field of defence and law enforcement, and its equipment is designed on the basis of feedback from operators in the field, whether they be special forces or intervention forces.

Ouvry's suits are filtering and "breathable", which allows better ergonomics and optimal comfort for operators. In addition, Ouvry manufactures **OBOOTS®** CBRN overboots and CBRN gloves of several types depending on the use and type of mission envisaged. In addition, Ouvry has developed individual **decontamination wipes**, easy to carry, to face chemical, biological and radiological threats. Finally, to meet a specific need expressed by specialised operators, OUVRY offers a **bag for evacuating contaminated victims**, with a small logistical footprint and without MCO, in order to minimise the risks of transferring contamination to any transport vector, while contributing to the decontamination of the victim during his extraction.

The company is referenced in the NSPA (NCAGE: FAUV9) and contributes to European Union and European Defence Agency contracts. Finally, prestigious special forces and intervention units have chosen Ouvry, such as the French Special Operations Command (COS), the GIGN (Gendarmerie Nationale) and the RAID (Police Nationale). Today, more than 600 customers in 45 countries trust Ouvry since its creation twenty years ago.



**EPIFOS®** is a CBRN "Combat Proven" suit developed by Ouvry to resist chemical warfare agents in liquid, vapour and aerosol form for 24 hours. Composed of trousers and a jacket, its design was based on feedback from special forces operators. Lighter than the FELIN CBRN suit developed for infantrymen, it was created to best meet the operational requirements of FS missions.

Based on a recognised filtering technology, EPIFOS® guarantees optimal protection for special forces operators, even when wet. CBRN filtering socks and gloves as well as overboots complete the range.

The **Response Forces Suit, TFI®**, is a CBRN filtering suit that protects the responder from chemical warfare agents in liquid, vapour and aerosol form for 24 hours, according to NATO recommendations. Lightweight, ergonomic and very robust, it allows intervention forces to operate in contaminated environments, while guaranteeing the safety and comfort of personnel. It is already adopted by Special Forces, intervention teams, RESCO, CTLO. The TFI® can be completed by the OBOOTS® overboots which guarantee optimal protection against liquids, and by CBRN filtering gloves model Target® specially designed for better dexterity when using weapons, particularly handguns.



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## PGM PRECISION

**Stand** : A21



Founded in 1991 and specialized in the development and manufacturing of high precision rifle, PGM Précision is the official rifle supplier of the French and foreign elite military units spanning nearly 55 countries.

Our rifles are known and recognized worldwide for their solidity and accuracy, they are designed for tactical use, both military and police.

Their modularity allows advanced customization in order to achieve top performance under even the harshest of conditions.



Discover their new **Ultima ratio** sniper rifle.

Designed for snipers, the **PGM Ultima Ratio** is a very high precision rifle capable of dealing with targets up to 1,000 meters. Initially designed in caliber 308 W, this weapon has since been available in many calibers

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## SYSNAV

Stand : B3-C4



SYSNAV offers **infrastructure-free navigation and geolocation solutions for all conditions**, including the most extreme. SYSNAV is the first system to offer "**GPS-denied**" capabilities for **light vehicles**, but also for pedestrians moving in areas not covered by satellite networks, without recognition, especially indoors.

SYSNAV's added value lies in its **magneto-inertial technology**, which allows its users to have **precise 3D positioning** data in all circumstances, on all terrains (**indoor/outdoor/mixed**). SYSNAV solutions compensate for the shortcomings of GPS and allow the precise geolocation of people or vehicles, outdoors as well as in buildings, on industrial campuses, and more generally in all areas obstructed or not covered by satellite networks (GPS-denied conditions), or those suffering from parasitic reflections of the GPS signal (urban canyons such as in New York or Paris La Défense). SYSNAV's unique and proven technology is used in high value-added solutions for various clients: Centurion Project, DGA, Ministry of Interior, BSPP, EDF, ADP Group



The **PLD**, or **Personal Location Device**, is an advanced military 3D geolocation device designed to provide real-time, infrastructure-free location in combat or training situations. It features a set of magneto-inertial sensors and a reliable wireless transmission for field use. SYSNAV has developed two versions of the PLD, the WATA for compact use in combat situations and the TMI for more sophisticated operations. Algorithms developed by SYSNAV fuse and analyse the PLD data to enable 3D trajectory reconstruction, thus improving the accuracy of locating soldiers in the field.

The map-matching software can be used to load existing maps, allowing for optimal use in combat situations. The PLD also includes features such as deadman alert, geofencing, point-of-interest tagging, 2D or 3D map mapping, guidance, planning and inter-device communication, making it indispensable for defence forces and military operations. The PLD thus provides additional security for the armed forces and better coordination for operations in the field. It is currently being tested by the DGA as part of the Centurion project and by the BSPP.



SYSNAV is developing a vehicle navigation/geolocation solution (the Blue Force) for military and defence applications, using its magneto-inertial navigation technology. SYSNAV's Blue Force integrates several technologies and sensors such as LIDAR, cameras, GNSS, odometer, mapping and data processing algorithms to provide a reliable and accurate tactical level navigation solution for military operations.

SYSNAV's **Blue Force**, which complements and/or replaces GPS, corrects possible GPS errors to ensure reliability and availability of navigation in defence situations. This prevents false positions being misrepresented as reliable, which is crucial for military operations. This robust and reliable solution is designed for the most demanding tactical environments and the most challenging conditions.

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## TECSUP

Stand : B24



TecsUp is a french manufacturer which has been designing and producing products related to energy storage and management for nearly 40 years: lithium batteries, battery chargers, inverters/UPS and converters.

Our range of energy cases has been designed to respond to the problem of powering electrical equipment (radio, PC, battery charging, lighting, living comfort, etc.) whatever the weather and temperature conditions.

These products are a real alternative to the use of the thermal generator, also making it possible to overcome certain drawbacks (fuel management, noise, gas).



Available in the form of suitcases, particularly appreciated for nomadic outdoor interventions, the **autonomous energy systems** can be used everywhere, even in the most hostile or difficult to access environments.

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## TELEFLOW

Stand : A56



For 30 years, TELEFLOW has been designing, manufacturing and marketing LPV (Variable Pressure Inflating Vehicle) systems and is constantly developing new products for wheeled vehicles.

TELEFLOW systems can be integrated into military vehicles **to guarantee mobility and thus the safety of units deployed** on any type of terrain.

Particularly well suited to military use, the ARM (Automatic Rolling Inflation) is fitted to many **light tactical vehicles**. Thus, the engagement of combat vehicles is facilitated by adapting the tyre pressure wheel by wheel, axle by axle, to the terrain conditions, the payload and the speed of the vehicle without altering the driver's concentration.

TELEFLOW offers **robust products adapted to severe conditions of use** and certified IP67 and IP68.

For **mission-related discretion**, the black-out mode synchronises the switch-off of the console and silent valves have been designed to increase stealth.



Sherpa Light with TELEFLOW system

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## TITAN DEFENSE

**Stand** : B25-C26



TITAN DEFENSE is the global specialist in **refuelling solutions for military and civil aircraft**. We design, manufacture and support aircraft refuellers, projectable containerised solutions and special operations equipment.

As a long-standing supplier to many armed forces and with over 60 years of expertise, we work closely with our customers to develop specific refuelling solutions for harsh environments. We offer both customised and turnkey solutions.

Our know-how and expertise are internationally recognised, thanks to the advantages of our products:

- Quality of design, ergonomics, and innovation
- Reliability and performance
- Easy to use and maintain
- Optimal consideration of safety
- Compliance with international and military standards

TITAN DEFENSE is currently developing innovative new generation refuelling solutions, running on alternative energies.



The **eFARP**, a 100% electric FARP module, now available for special operations: compact and easy to transport, it is battery operated and can be recharged with solar panels.



An **electrification kit** for the renovation of refuellers already in service, allowing engine off refuelling.

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LEBEL®

IN OMNIA PARATUS

## VERNEY-CARRON / LEBEL

**Stand** : A36

By renaming them LEBEL, the arms manufacturer founded in Saint-Etienne in 1820 gives a new identity to its product lines for defence and security.

A two hundred year old reference in the field of hunting weapons, Verney-Carron has since the mid 90's diversified its offer with two entities: **Verney-Carron Security** and **Verney-Carron Defence**, combining the design, manufacture and sale of **lethal weapons** (machine gun, assault rifle, semi-automatic precision rifle) and **non-lethal weapons** such as the invention of the Flash-Ball. Wishing to bring together these two areas dedicated to security and to enter a new era, the Saint-Etienne-based company launched its new entity called LEBEL®.



**The Matru:** the latest product from the St Etienne's forges, the MATRU is the result of 201 years of Verney-Carron experience and French armoury know-how.

Resulting from a collaboration with the French forces and initially dedicated to non-lethal actions, the Matru is now available in 40x46 explosive version. It is therefore the most compact grenade launcher available on the market.

**VCD15:** light, robust and versatile, the vcd15 is an assault rifle meeting the needs of armies, intervention groups and police forces. Taking advantage of Verney-Carron's know-how, this assault rifle based on the renowned ar15 platform is enhanced by specific internal coatings, high lightness and very good ergonomics.



**VCD10:** the VCD10 is a semi-automatic precision rifle. Inspired by the AR10 platform, Lebel has shown ingenuity and boldness to meet the requirements of armies and forces looking for a reliable and efficient weapon. This rifle, equipped with a self-lubricating system, is also very comfortable to shoot thanks to its ergonomics. Easy to use and chambered in 7.62x51 NATO, the VCD10 will be the ideal partner for the precision shooter in any environment.

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## WILDSTEER

Stand: A21

**WILDSTEER**  
ULTIMATE OUTDOOR & TACTICAL KNIVES

WILDSTEER was founded in 2005 and specialises in tactical knives for Special Forces and Armed Forces. Each model is developed with the operational units and allows the integration of the design of the knife, the sheath and the carrying systems which must be as flexible as possible. The company is located in St Etienne and ensures all its manufacturing in the Thiers and Stephanois basin.



The "**Leviathan**" was designed for the 70-year-old combat swimmers of Commando Hubert and is an extremely light knife for land, sea and underwater operations.

This knife has a sheath that can be worn around the neck, in a Molle loop, on the belt with a Soft loop and mounted on the calf.

It can be used bare or with paracord. It is made of high quality Bohler N680 steel and has an aerospace grade coating to improve performance in marine environments.



The "**KRS**" stands for "Rescue" and is a knife designed for the SEALS TEAM association, to support those wounded in war or terrorist attacks.

It is a survival and rescue knife, equipped with a Swedish steel blade, a flint, paracord fire starter, a sharpening plate with distress mirror, a strap cutter and a glass breaker.

Equipped with a MOLLE mount and belt, this highly successful knife is compact.

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# EDEN

DEFENSE SECURITY SAFETY CLUSTER

FRANCE

## A propos du Cluster EDEN et de sa participation au SOFINS

A national cluster of French SMEs in the defence, security and safety sectors, EDEN represents an interface of 100 companies capable of building synergies and pooling their resources to develop their business.

Participating in SOFINS for the 6th consecutive edition, the EDEN Cluster is a member of the Cercle de l'Arbalète and contributed to the origins of this exhibition 10 years ago.

This year, at least 18 of our members are exhibiting their range of products for the benefit of special forces. From weapons to various equipment, they are a showcase of French industrial know-how, knowing how to adapt to the demanding constraints of the environment in which the special forces evolve.

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# EDEN

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