

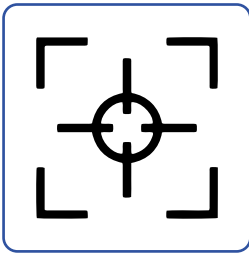
DEFENCE

# Training and Decision making process



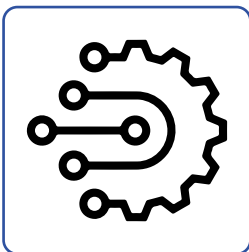
**GICAT**

The French land defence and security  
industry association



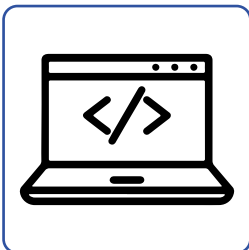
## SHOOTING RANGE AND TRAINING AREA VALORISATION

Targets and equipment - training munitions - sensors and effectors - software for simulation of effects, modelling, scenario creation, geolocation, security and educational use of training facilities and tactical training, designed and conducted on and outside military installations.



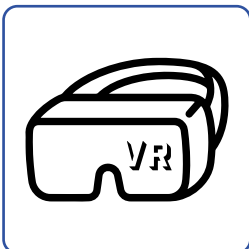
## SIMULATION FOR DESIGN ENGINEERING AND VALIDATION PROCESS

Production and support of models, software and services for simulation activities of manufacturers and procurement agencies for design, manufacture and qualification of systems and subsystems. Software and services for the creation of models for the implementation of virtual and constructive simulation software.



## SIMULATION SOFTWARE

Production and support of completed operational simulation software or software used in the development of live, virtual and constructive simulation tools.







## SIMULATION HARDWARE

Virtual reality - mixed reality - augmented reality - sensory experiences - physiological analysis: production and support of physical man-machine interfaces (MMIs) or equipment used in development of live, virtual and constructive simulation tools.  
Production and support of IT equipment dedicated to simulation systems and architectures.

# INDEX



COMPANIES					PAGE
	SHOOTING RANGE AND TRAINING AREA VALORISATION	SIMULATION FOR DESIGN ENGINEERING VALIDATION PROCESS	SIMULATION SOFTWARE	SIMULATION HARDWARE	
CAPGEMINI TECHNOLOGY SERVICES					5
COGNITIVE DESIGN SYSTEMS (CDS)					6
ELECDAN					7
ELIKA TEAM					8
EXAIL					9
EXCENSE					10
GDI SIMULATION					11
HENSOLDT IN FRANCE					12
IFESO					13
INMIND-VR					14
JOHN COCKERILL DEFENSE FRANCE					15
KNDS FRANCE					16
LACROIX (REAL-XT)					17
MASA GROUP					18
MBDA					19
SAFRAN ELECTRONICS & DEFENSE					20
SOGECLAIR SA					21
SOGITEC					22
SYSNAV					23
THALES					24
TOUTENKAMION GROUP					25

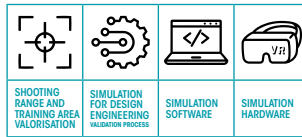


LISTING

---

membership  
directory





# CAPGEMINI TECHNOLOGY SERVICES

For over 55 years, CAPGEMINI has been a trusted partner in the business and technological transformation of industrial companies and public organizations in the defense sector. By mobilizing its resources in Cloud, Data, AI, UX and digital twins, CAPGEMINI enables you to design and deploy next-generation simulation environments that are fully customized and secure.

## End-to-end simulation expertise to accelerate decision-making processes

More than ever, simulation will be a critical tool to maintain operational superiority, master new conflict domains and counter hybrid threats. Capgemini's simulation offering is a key driver in accelerating and securing the development of new systems for defense industry companies and public organizations. We provide the professional skills and business know-how required to develop state-of-the-art simulation tools, while ensuring the digital continuity of models throughout the systems lifecycle:

- Requirements elicitation based on wargaming exercises enables decision makers to identify early on the system capabilities that the armed forces will need to perform their future missions.
- Our simulation tools allow you to immerse models of architectures and future systems in an environment representative of theaters of operation, conduct CONOPS studies, evaluate trade-offs in an operational context, and always consider human factors.
- We verify and validate future systems by combining simulation and real hardware (hybrid simulation) and integrating multiphysics models for detailed evaluation.
- We develop digital training tools to improve the efficiency of operational personnel, using personalized 3D models, cockpits reconstitution, physics modeling, scripting, distributed simulation, interfacing with real systems, all with excellent business knowledge.

Our mastery of engineering processes ensures a very high level of expertise in the many fields required for trustworthy simulation: business skills, model-based development, interoperability standards for LVC, multiphysics, immersive technologies, digital continuity, etc.



Michel de Castelbajac | Group Client Partner Defense

+33 (0)6 28 25 31 18

michel.de-castelbajac@capgemini.com

www.capgemini.com

147 quai du Président Roosevelt |  
92130 ISSY-LES-MOULINEAUX | FR





# COGNITIVE DESIGN SYSTEMS (CDS)

Adopt Additive Manufacturing & 3D Printing, with Cognitive Design Systems.

**Cognitive Design Systems is a french software editor developing AI-driven decision making solutions to ease the adoption of advanced manufacturing methods, such as additive manufacturing, also known as 3D printing.**

3D printing brings a lot of value to defense players, such as Armies and OEMs, especially in terms of operational efficiency.

By producing the right part at the right place at the right moment, you sharply increase the ability to defend your position on the battlefield.

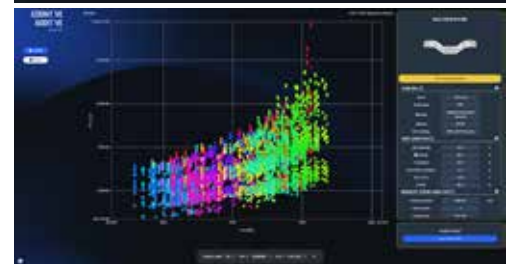
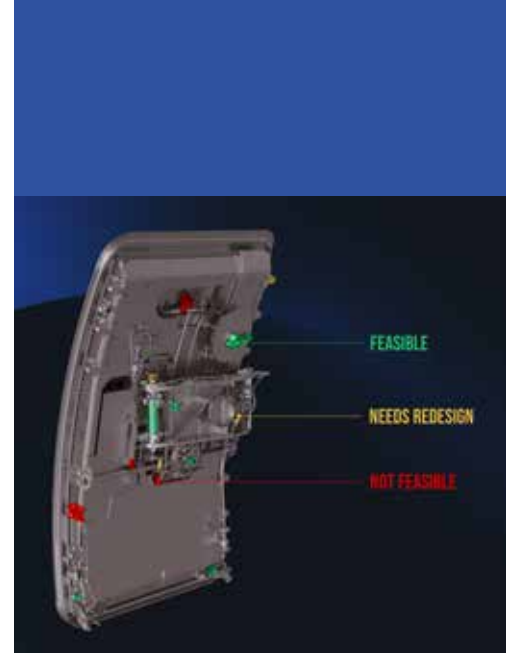
Still, identifying the right parts within your ecosystem for additive manufacturing is the first barrier preventing technology adoption. Project managers within large organization often face significant challenges when trying to justify the suitability of a particular part for AM.






This is where our outstanding software suite comes into play, with remarkable capabilities to analyze large volumes of parts according to various criteria including manufacturability, leadtime to first article, design improvements opportunities and other relevant factors.

Powered by AI, our solutions enable you to quickly process vast amounts of data (2D drawings and/or 3D models) and filter through numerous combinations of parts, machinery, materials, and settings to focus on the optimal choices.

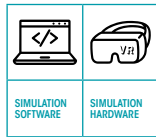
Our software is designed for data-sensitive environments, suitable for critical industry where privacy is crucial. On-premises (off-cloud), this solution will provide security and control. Our AI-neural network and algorithms are pre-trained, which means they are not using your data, which remains strictly confidential.

Adopt Additive Manufacturing & 3D Printing, with Cognitive Design Systems.



 **Georges CASEAU** | Sales & Marketing Director  
 **+33 (0)6 70 84 14 35**  
 **georges@cognitive-design-systems.com**  
 **www.cognitive-design-systems.com**  
 **7 rue de Bayard | 31000 Toulouse | FR**





# ELECDAN

Secure remote control of computers and display management on video walls

**Founded in 1992, Elecdan is a key leader in the study and integration of multi-screen operator consoles and video walls dedicated to control rooms and centralized command posts (PCC).**

By creating a "personal video wall" concept, operators can consolidate information sources across multiple screens, thereby optimizing their efficiency. Our solutions enable security analysts to efficiently monitor large amounts of data to identify potential issues without worrying about technical aspects

## SOLUTIONS ADAPTED TO EVERY NEED

Thanks to their ease of installation and modularity, our solutions are designed to adapt and grow with your architecture.

### Benefits:

- Away from noisy business machines
- Grouping of sensitive machines in secure enclosures with restricted access
- Remote control of physical or virtual machines
- Separation of video information flows between classified and unclassified machines
- Products with EAL4+, NIAP, TEMPEST safety standards and criteria
- Limitation of access to keyboard/mouse/video streams only to prevent any risk of data theft via USB device

### Solutions:

- Remote access products for your machines on a dedicated copper or optical link
- Network separation
- User access control
- Scalable video wall management
- Support for high 4K video resolutions and 5K curved displays

### Services:

- Site study
- Proof of Concept POC
- Custom design
- Integration
- Training
- Maintenance

👤 Christophe Varnier | Director of Operations

☎ +33 (0)1 60 11 44 44

✉ contact@elecdan.com

🌐 www.elecdan-solutions.com

📍 ZA des Godets, 2 impasse de la Noisette | 91370 Verrières-le-Buisson | FR





# ELIKA TEAM

Officers, senior officials and authorities working in an international command center (Battlegroup or Division level NATO Command Post, European rescEU – EU civil protection Mechanism - deployed CP, etc.) are fully aware of how the insufficient fluency in a foreign language can impair the decision-making process.

**Elika Team is a start-up specialized in operational linguistics that has been created to satisfy the very specific needs. Strengthened by years of cooperation with the French Army and the Defense Innovation Agency, we have trained units of the Ministry of Armed Forces, units of the Ministry for Internal Affairs as well as foreign units.**

We offer a **tailor-made approach** to improve tactical communication and therewith the decision-making process in a multinational environment.

Our solutions have been codeveloped with the best (French Army Special Forces, Army Aviation, French national SWAT) to take into account your requirements : limited and random training time, the need for **efficiency**...

One objective, to perfectly meet your needs:

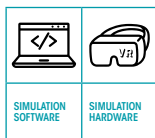
- **Assessment** of your personnel language level,
- **Training by specific modules** adapted to the situations that they are or will be confronted with in the future (CONOPS or OpsOrder development, mission briefing, backbrief, preparation of situation reports, press conference, etc.),
- Linguistic training entirely **based on realistic operational scenarios**,
- Face to face with our operational experts or digital with our job specific applications,
- Our **innovative applications** entirely operate **offline**. They are **secured, anonymous, robust** and they have already been deployed on operations.

English, French as a foreign language and Arabic are available. A Slavic language and Spanish will be on the market shortly. The interface language can be adapted on demand.



 Karine Joyeux | CEO  
 +33 698 800 812  
 Karine.joyeux@elikateam.com  
 www.elikateam.com  
 24 bvd Marcel Dassault | 64200 Biarritz | FR





# EXAIL

## Advanced simulators for training and enhancing skills

Exail is a high-tech industrial company specializing in driving simulators for defense and homeland security. Exail is committed to delivering highly immersive training experiences and developing fully customizable simulators projects for customers operating armored vehicles for both domestic and external operations. At Exail, we empower forces around the world to conduct their operational driver preparation efficiently while streamlining training costs and logistical requirements.

## Innovative training packages tailored to different types of vehicles

Drawing on 35 years of expertise, Exail builds advanced simulators for all military vehicles and integrates the latest generation of mixed reality headsets to offer an unparalleled realistic experience. Exail's land defense simulators provide the highest level of immersion featuring a full cab replica based on MVS (Military Vehicle Simulator) solutions or by adapting its cutting-edge generic 3 axis simulator easily configurable to match several trucks configurations. These systems ensure that armed forces drivers are prepared to master the mobility and maneuverability of their vehicles, their advanced functions, electronic interfaces, and to harden themselves for operation in intense conditions.

## Scenario editor for tactical training and doctrine evolution

Exail delivers its advanced training tools via IOS (Instructor Operating Station) to enable users to be totally autonomous in the design and evolution of their training scenarios while preserving the utmost confidentiality of their doctrine. Tactical training is offered by networking groups of driving simulators with radio communications to practice basic procedures for new operators to advanced mission preparation for more experienced operators, to ensure the sustainability of skills and knowledge in highly demanding environments.

# exail

👤 Louis ELCABACHE | Driving Simulation Sales Manager

📞 +33 (0)6 89 59 37 64

✉️ louis.elcabache@exail.com

🌐 www.exail.com

📍 Rue Blaise Pascal, Parc Pegase | 22300 Lannion | FR





# EXCENSE

Excense is the publisher of the Compositeur Digital software, the solution that transforms a touchscreen into a tool for operational and decision-making excellence. The solution is deployed with defence and security forces for in-person and remote training, simulation sessions, as well as high-stakes meetings: after-action reviews, supervision, crisis management.

Instantly operational and authorised on secure networks (French Ministry of Defence and Ministry of the Interior), the Compositeur Digital software make it possible to enliven presentations in a flowing and intuitive way, addressing both holistic or detailed views, facilitating the understanding of complex situations, as well as capturing and sharing key information.

## A TOOL FOR OPERATIONAL PERFORMANCE AND DECISION-MAKING.

### Enhance the operational efficiency of your teams

In a context where speed and precision are crucial assets, the Compositeur Digital solution enables agile and efficient navigation in a dynamic digital presentation space tailored to your image, capturing your audience's attention, encouraging interaction, accelerating learning and intensifying decision-making.

### Showcase your image and expertise

Thanks to its non-linear interactive interface and innovative features, the Compositeur Digital fosters lasting collective engagement and a memorable pedagogical experience. This modern and impactful digital medium showcases your expertise and strengthen your credibility.

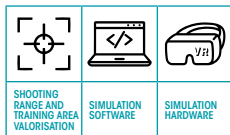
### Harmonise content and practices

Secure and immediately available, the Compositeur Digital application automatically synchronises all content across users' devices. Even offline, the materials remain up-to-date and accessible, fostering optimal cross-team collaboration and productivity.



-  Denis Tellier | CEO
-  +33 (0)9 80 54 41 42
-  [contact@excense.fr](mailto:contact@excense.fr)
-  [www.excense.fr](http://www.excense.fr)
-  4 rue de Montfort | 35000 Rennes | FR





# GDI SIMULATION

GDI SIMULATION: PIONEERING SIMULATION FOR 75 YEARS.

**GDI simulation offers simulation systems and services to support operational readiness and capabilities development. Main markets are live outdoor and indoor virtual simulators.**

**GDI simulation is a 100% subsidiary of MBDA France**

## Indoor Virtual Simulators

GDI's IVS place trainees in immersive virtual scenarios for highly representative technical and tactical training. They make use of the most powerful 3D engines adapted to military requirements (Unreal, VBS, MÄK). Simulators enable section-level interactions between the chief and the gunner and can be set up in connected platforms to enable fire-conduct training at section level.

Current range includes Akeron MMP and Mistral missile firing-station simulators.

## Live Outdoor Simulators

A complete range of LOS for outdoor military exercises in real conditions and environment. Based on 1-way and 2-way laser technology, supplemented where necessary by virtual simulation, GDI simulation's LOS respect ammunition ballistics, time of flight and target's vulnerability. Firing and target systems interactions identify the shot accuracy and the resulting damage, thus ensuring battlefield realism during exercises.

GDI's range covers equipment for infantrymen, MBTs and armoured vehicles, HMGs, missile firing posts (anti-tank / ground-to-ground), IEDs, grenades, drones, sniper rifles and arbitration equipment.

## Virtual Shooting range

GDI's VSR enables weapons training for law enforcement and military personnel through:

- classic shooting range with various targets and distances for technical training and work on precision and speed,
- behaviour and reflex control exercises,
- immersive scenarios that place trainees in virtual environments and situations to develop judgment, posture, and weapon use.

STV is easy to use, based on a 3D Unreal engine. Ballistic precision is ensured by laser technology, and weapon recoil is simulated.



Guillaume Dandrieux | Sales & BD director

+33 (0)1 75 21 72 00

guillaume.dandrieux@gdi-simulation.fr

www.gdi-simulation.fr

1 Boulevard Jean Moulin | 78990 ELANCOURT | FR







# HENSOLDT IN FRANCE

INCREASING THE AVAILABILITY OF MILITARY EQUIPMENT AND SYSTEMS WITH A COST-EFFECTIVE TESTING AND VALIDATION PLATFORM

**HENSOLDT, a major European player in the defence sector, is present in France through two legal entities, both members of the DITB: HENSOLDT Nexeya France and HENSOLDT France SAS, operating on 15 sites and employing more than 700 employees throughout the country.**

In France, HENSOLDT designs, manufactures and maintains in operational condition highly critical electronic products, cyber security equipment and solutions linked to testing, simulation and energy management.

On land, at sea, in the sky or in space, HENSOLDT's activities in France are based on a strong spirit of innovation and contribute to the safety of people and property throughout the world.

## ALYSA, USING SIMULATION TO REDUCE COSTS AND ACCELERATE TIME TO MARKET


HENSOLDT Nexeya France has more than 30 years' experience in designing and developing test and simulation solutions for the Rail, Aerospace and Defence sectors. ALYSA is a turnkey and modular solution for system integration, validation and certification. Our solutions bring the maximum possible forward planning and safety to the development process of platforms for enabling quick prototyping and reduce time to market.

From modelling preliminary concepts (MIL) and simulating actual operational scenarios (SIL) to validating and integrating real hardware (HIL), our modular and scalable ALYSA test solution meets the current needs of OEMs and manufacturers. By creating Digital Twins, the ALYSA solution makes it possible to test and validate all OEM equipment and sub-systems, whether real or simulated, at every stage of their development and integration.

Finally, HENSOLDT Nexeya France is a system integrator and provides end-to-end solutions in telemetry, flight-test supervision solutions, data links security and flight termination systems, having offered turnkey solutions to test centres worldwide for many years.




 Emilie Gessen | Head of Marketing & Communications

 +33 (0)5 61 43 58 00

 [communication@hensoldt.fr](mailto:communication@hensoldt.fr)

 [www.hensoldt.fr](http://www.hensoldt.fr)

 Golf Park, 1 Rondpoint du Général Eisenhower |  
31100 Toulouse | FR



**HENSOLDT**  
Detect and Protect.



# IFESO

Education and Training for Command and Control:  
From the strategic to the tactical level, spreading the  
French experience and know-how

## Expertise :

- Accredited Joint Staff College (Ecole de Guerre).
- NATO selected course
- Present in 7 countries
- Planning and execution of Joint campaign
- Decision Making process
- Innovative pedagogical engineering: training, turnkey exercises

## Advanced Command and Staff College

- Qualifying course (French label)
- 2 to 13 weeks
- Executive training modules (capacity transfer)

References: KSA officers followed this curriculum in CDG5S and French War College3

## Capability :

- Around 30 collaborators
- 5 simultaneous training events
- Flexibility - Adaptability

## Functional Area Courses :

- Intelligence
- Targeting
- Logistics
- STRATCOM & Information Operations

## Innovation :

- E-learning and virtual classes
- Simulation (partnership MASA)
- Big data exploitation : Cyber - Design Thinking - Wargaming

## Education & Training for Strategic, Operational and Tactical Headquarters

- Courses & Exercises
- Adaptation according to the level of responsibility (staff officer, key leaders, General Officer)
- Wargaming
- Procedure development (SOPs)

👤 Jean-Hervé Michelot | Eric Guillemin

☎ +33 (0)6 14 63 18 54 | +33 (0)6 16 60 08 11

✉ [jean-herve.michelot@ifeso.org](mailto:jean-herve.michelot@ifeso.org) | [eric.guillemin@ifeso.org](mailto:eric.guillemin@ifeso.org)

🌐 [www.ifeso.org](http://www.ifeso.org)

📍 72 Rue du Faubourg St Honoré | 75008 Paris | FR





# INMIND-VR

At InMindVR we are revolutionizing the way cognitive performances are measured and enhanced. Bringing the simulation lab power to the field, our innovative neurotechnological solutions are designed to reduce human risk by providing precise evaluations of cognitive load, vigilance, fatigue, and stress. Our ready-to-go cognitive evaluations available are autonomous and customizable, and make a significant impact in improving safety in sectors such as vehicle and aircraft piloting, security, energy and industry.

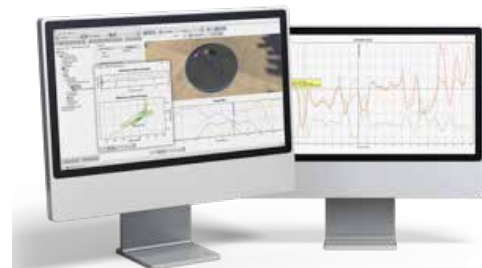
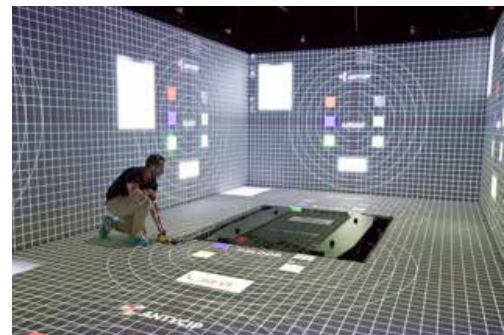
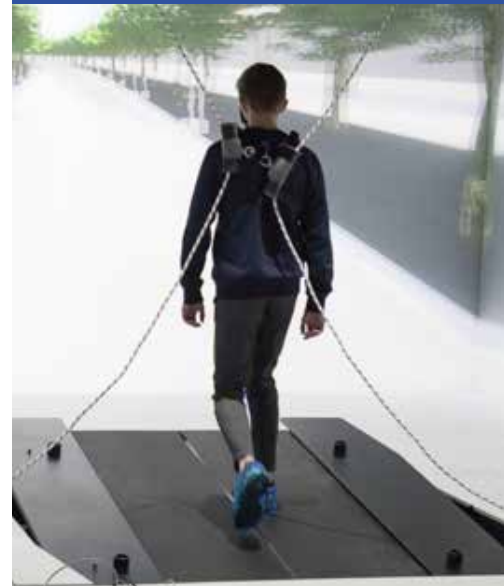
## Transform Your Operations with InMindVR:

Introducing VRMaze and MindBox: Autonomous Cognitive Evaluation Tools

- Ready for simulation: Our tools are made to design and run scenario in virtual reality and cave, while natively recording physiological and behavioral data to determine cognitive states.
- Real-Time, On-Field Assessments: Engineered for real-world applications, our tools provide real-time measurements of vital physiological and cognitive functions directly on the field.
- Proven in Complex Missions: Trusted by professionals, our solutions have excelled in extreme environments missions, ensuring both safety and insurance of top performance.
- User-Friendly and Portable: Designed for ease of use, our portable systems offer autonomous monitoring, ideal in any challenging or constrained environment.

## Customized Neuroscience R&D Services:

- Advanced Physio-Behavioral Algorithms: Our expertise extends to comprehensive measurements of cognitive states in VR/Cave simulation using brain, physiological, and behavioral signals, providing deep insights into operator performance.
- Tailored Cognitive Load and Decision-Making Evaluation: We specialize in custom R&D projects to help you understand and optimize the cognitive impact of your equipment, interfaces, or cockpits. Our evaluations deliver objective data to enhance operator performance and minimize errors.

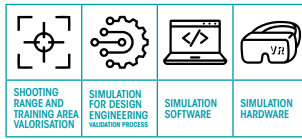


[Quentin Montardy | CEO](#)  
[contact@inmindvr.net](mailto:contact@inmindvr.net)  
[www.inmindvr.net](http://www.inmindvr.net)  
 17 rue Claude Bloch | 14000 Caen | FR



INMIND-VR





# JOHN COCKERILL DEFENSE

## Training

John Cockerill Defense offers a complete range of services for systems & equipment commissioning operations:

- Validation of designed elements
- Logistics
- Perception and handling, simulator-assisted theoretical and practical training
- Field application with the implementation of test and training campaigns at our advanced firing and training centers located at the Suippes military camp (France)

## Simulation

John Cockerill Defense simulation solutions are developed by Agueris®, a leading player for training and simulation. It designs, develops, integrates, deploys and supports simulation-based training solutions for weapon systems and vehicles:

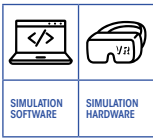
- Simulators for technical-tactical training of weapon systems
- Embedded simulators
- Simulators for maintenance training
- UAV Training simulators
- Cabin simulators

Agueris® simulators offer the perfect solution for gaining the necessary technical expertise in any context or scenario. Apart from simulators, Agueris® also provides end users with the possibility of raising their powers of simulation thanks to its teams dedicated to the support, maintenance and assistance.



- Martial BELLIER | Correspondant
- +33 (0)6 25 42 84 06
- martial.bellier@johncockerill.com
- www.johncockerill.com
- Parc Activités Moulin | 57925 Distroff | FR





# KNDS FRANCE

New equipment commonly incorporates technologies that have already proven themselves, but also, turn to those, more innovative, which will allow them to stay one step ahead to best meet the needs expressed by the armed forces.

## KNDS FRANCE BRINGS SIMULATION TO THE HEART OF DESIGN AND OPERATIONAL PREPARATION

By offering virtual simulators, KNDS FRANCE wishes to support forces to strengthen their training capacity by relying on these technologies as realistic, economical and efficient means for operational readiness; simulators designed for individual and collective training, from pilots to armoured vehicle or artillery crews.

## KNDS FRANCE PUBLISHER OF ITS SIMULATION SOFTWARE

To meet the needs expressed by the armed forces to have adapted training means, while ensuring a secure technological continuum between the use of a real equipment and its replication in the simulation, and applied to make very high fidelity secured replicas, KNDS FRANCE uses its own software to model behaviors of its equipment in simulation and offer a range of technical and tactical simulators first dedicated to systems produced by KNDS FRANCE in artillery, infantry, cavalry, naval branches.

## KNDS FRANCE IN SUPPORT OF OPERATIONAL DECISION

In addition, KNDS FRANCE also offers digital tools, sandboxes using constructive simulation, wargame to train brigade and battle group command posts in operational procedures and decision making process.

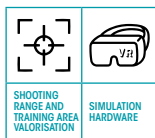
Complementing the use of our systems with powerful and effective training tools, simple to use and implement is a crucial objective as well as being able to provide effective support for the design of our future systems through simulation.



- 👤 Guillem MONSONIS | Head of communication
- ☎ +33 (0)1 39 49 30 00
- ✉ guillem.monsonis@knds.fr
- 🌐 <https://knds.fr/>
- 📍 13 route de la Minière | 78034 VERSAILLES Cedex | FR



# KNDS



# LACROIX (REAL-XT)

**REAL-XT**

REALISTIC X-TENSIVE TRAINING

LACROIX has been supplying Armed Forces with a complete range of self-protection devices (Naval, Airborne and Land) and is now offering realistic training solutions for live fire and live training under our new brand « REAL-XT ». Lacroix has invested itself in developing and providing technical solutions, delivering the most realistic and effective training for troop readiness.

## LIVE TRAINING SIMULATION

### SPARKT L2/L20, SPARKT IED SIMULATORS

- For live training simulation (vehicles, targets..)
- Live training simulation against IED threats
- For live firing solutions (targets)
- Stand alone or integrated application

Effects : Gun shot, smoke and explosion

## SELF PROTECTION TRAINING

### LARGE PANEL OF TRAINING AUTO PROTECTION AMMUNITION

- SMART XT1 (80mm GALIX) & HIDE XT1 (76mm) AMO
- REUSABLE CANISTER

### BATTLEFIELD ANIMATION

Ensure operational and realistic training for urban and open field areas. A wide range of effects available (Explosion, Missile launch, Artillery, Impact...)

- Key advantages : Taylor made, Realistic training

### CHEMICAL RISK TRAINING

SIMTAC provides a realistic and non toxic effects (SPRAY) simulating Chemical Warfare Agents (CWAs). Used for indoor training with flame spectrophotometry technology detectors (PROENGIN).



📍 Jean-Luc PAQUIÉ | Business Developer Training

☎ +33 (0)6 09 15 08 68

✉ jean-Luc.paquie@etienne-lacroix.com

🌐 www.lacroix-defense.com

📍 Route de Gaudiès | 09270 MAZERES | FR







# MASA GROUP

The market-leading specialist in computer-modeling and simulation for defense, civil security, and crisis management.

**MASA Group is a French company specializing in the development of artificial intelligence-based training software for the defense and crisis management markets. The company bases its success on products that combine cutting-edge technology, flexibility, and adaptability.**

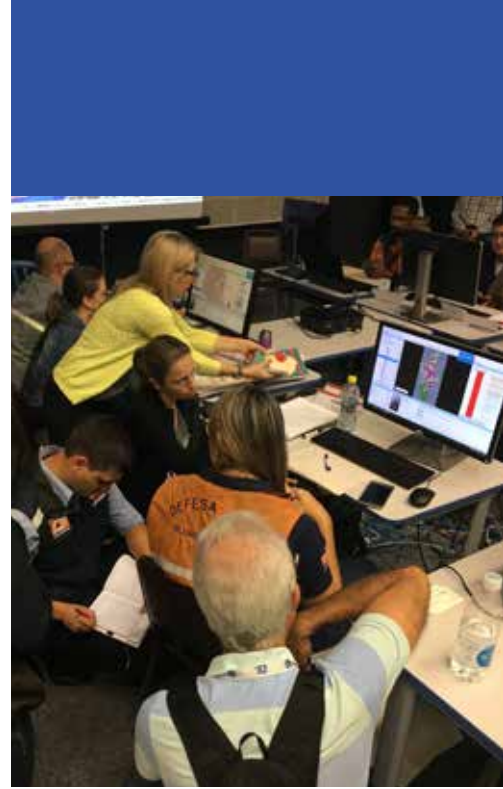
Our flagship products, MASA SWORD and MASA SYNERGY, are designed to simplify and optimize the implementation of AI capabilities to automate and reproduce simulated human behavior. They are used by major organizations such as the French Army and 25 other major armies around the world.

## MASA SYNERGY

Synergy software is designed to model human and non-human behavior, integrating data specific to the situation (terrain, environment, etc.). The situations simulated in Synergy are extremely realistic, immersing those involved in crisis units in a wide variety of scenarios. By generating complete and realistic crisis scenarios, MASA Synergy offers all those in charge — whether they be law enforcement agencies, critical infrastructure managers, or local authorities — an innovative solution that optimizes the effectiveness of crisis and major risk management training programs.

Our software is installed in NATO's Disaster Risk Management Center of Excellence in Sofia, where it is used for military and civilian decision-making training, scenario analysis and research

E.S.E.Q.1, a higher education organization attached to the Faculty of Law and Political Science at the University of Montpellier, uses our software for training courses aimed at future quality- and safety-environment managers.



Amina OULEBSIR | Directrice des opérations

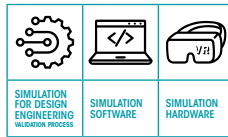
+33 (0)1 55 43 13 20

amina.oulebsir@masagroup.net

www.masasim.com

8 rue de le Michodière | 75002 PARIS | FR





# MBDA

In partnership with its domestic and export customers, MBDA has developed a comprehensive set of simulation tools and services that cover:

Concept Phase, for studies and concept optimization / Development Phase, for performance guarantee and risk mitigation / Integration Phase, for integration and system validation / In service Use, for training and coaching

## Concept phase

The BASILIC experiments are studies of concepts of future weapons systems with setting in situation of operational players in simulated but realistic tactical and terrain environment. It takes into account: concept doctrine, organization, platform integration, BMS needs, actors roles, technologies and Human factors. Those studies also allow MBDA to make systems integration and ergonomics works.

## Development Phase

MBDA has developed numerical simulations for all its weapon systems which help during the development phase to qualify and validate the technical performances. HWIL simulation also allowed MBDA to validate and qualify most of the sub-systems of its missile systems.

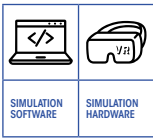
## Training: technical and tactical simulators

**MASCOT:** MISTRAL Architecture System for individual or Collaborative Training, indoor with 100% immersive synthetic environment and outdoor with augmented reality / **NETS:** anti-tanks weapon indoor/outdoor training with augmented reality capability / **SESAME MPCV:** outdoor training, embedded in vehicle with Augmented Reality / **ATTACS:** Instruction and training of hybrid/mixed combat units in realistic environments / Land Forces Tactical Training / Innovative & Advanced Modular Platform / Inter Operation of MBDA Combat Simulators / Open Architecture for future Systems / Realistic Synthetic Environment with 3D targets / "Plug & Practice" / Latest Technologies with Augmented Realit



- Philippe GOUYON | Conseiller Opérationnel Terre
- +33 (0)1 71 54 44 00
- philippe.gouyon@mbda-systems.com
- www.mbda-systems.com
- 1 avenue Réaumur | 92358 LE PLESSIS-ROBINSON | FR





# SAFRAN ELECTRONICS & DEFENSE

Collaborative preparation, execution and restitution of the mission

**Safran holds world or European leadership positions in optronics, avionics, electronics and critical software. Safran is the No. 1 company in Europe and No. 3 worldwide for inertial navigation systems used in air, land and naval applications. It is also the world leader in helicopter flight controls and the European leader in optronics and tactical UAV systems.**

**MPME** is a collaborative mission preparation system for helicopters. The system has been in service since 2005 within the French Army's light aviation and is about to integrate the Cheetah, a light joint helicopter (HIL).

The MPME will therefore be equipped with a base of common functionalities but also with specific characteristics to each army. The hardware and software solution comes in a tactical form (tablet included), projectable on the ground in all conditions and in a more complete form called infrastructure.



-  Gilles PERRONE | Public Affairs Director
-  +33 (0)6 37 99 20 92
-  gilles.perrone@safrangroup.com
-  www.safran-electronics-defense.com
-  55, bd Charles de Gaulle | 92240 MALAKOFF | FR







# SOGECLAIR SIMULATION

Designing simulation solutions tailored to streamline development and training cycles.

**With recognized expertise in driver/pilot training within realistic and complex environments, SOGECLAIR SIMULATION supports customers throughout the entire product lifecycle, from initial design and manufacturing to in-service support.**

## Simulated equipment

As a leading supplier of simulated equipment, SOGECLAIR SIMULATION oversees the entire development cycle, from design to manufacturing (including mock-ups, prototypes, tests, qualification, and series production), providing comprehensive support to major players in the training and simulation markets. SOGECLAIR SIMULATION provides hardware solutions ranging from low-level trainers to Full Flight Simulators.

This offering includes :

- Simulated civil and military equipment (aircraft, helicopters, fighters, tanks).
- Fully equipped cockpit replicas.
- Simulated naval equipment: periscope, throttles, consoles...

## Simulation of Synthetic Environments & IA

SOGECLAIR SIMULATION is at the forefront of simulation, virtual reality, synthetic simulation, and testing. Leveraging SE-Workbench multisensor physical simulation software, SOGECLAIR SIMULATION provides customers with an electro-optical and radio-frequency sensor simulation workshop, enabling them to evaluate the future performance of their systems. This offering includes:

- Stealth and camouflage studies
- Studies of guidance and navigation systems
- Development of signal processing for Detection, Reconnaissance, Identification and Guidance systems
- Development and testing of decoy systems
- Radar studies (EWS, SAR imaging, RCS, etc.)
- Augmented vision for critical systems (all-weather piloting assistance, «see and avoid»)

👤 Catherine GOUDET | Sales Manager

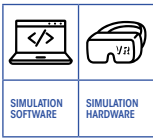
☎ +33 (0)6 85 65 25 35

✉ catherine.goudet@sogclair.com

🌐 <https://sogclair.com/>

📍 5 rue de Caulet | 31300 TOULOUSE | FR





# SOGITEC

## Training and Decision-Making Process

As a world leader in simulation systems dedicated to aeronautical training, SOGITEC supports its parent company, Dassault Aviation, in defining and promoting comprehensive training offers for its French and foreign customers, across the entire spectrum of military aircraft: from Rafale and Mirage 2000 fighter jets to helicopters and UAS.

### **SOGITEC: a major player in military aircrew training**

From simulators design to in-service-support, SOGITEC is in constant dialogue with aircrew for their training requirements. Each simulator is subject to a degree of modelling, both of the platform and its environment, adapted to specific use cases, in order to provide the best benefit in military pilot preparation and mission conduct.

SOGITEC's solutions provide users with powerful immersion capabilities, taking advantage of numerous technological developments such as virtual and mixed reality, but also artificial intelligence.

### **SOGITEC provides solutions that immerse aircrew in complex environments, in order to train them in making rapid and good decisions**

The solutions proposed by SOGITEC reproduce the real-life conditions of today's conflicts: complex situations, dense environments, rapid changes over time or even interoperability with allies.

SOGITEC's simulators incorporate functions that enable instructors to vary scenarios according to the chosen learning progression, in order to train pilots as well as complete crews in decision-making during simulated and real-life situations. The interoperability of these solutions enables training to be extended to include cooperation between aircraft, and even with command-and-control centers.



👤 Frederic-Guillaume OHRENSTEIN | Marketing and Sales Director

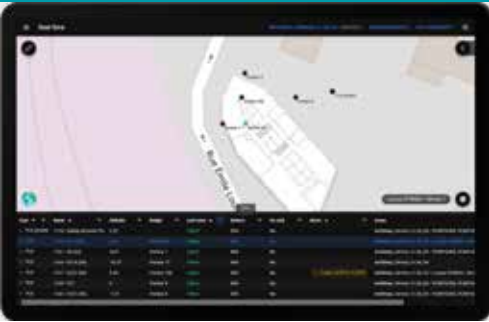
☎ +33 (0)6 81 38 10 38

✉ fohrenstein@sogitec.fr

🌐 www.sogitec.fr

📍 4 rue Marcel Monge | 92152 Suresnes | FR





# SYSNAV

Indoor / Outdoor soldier localization for urban combat training centers

**SYSNAV specializes in high precision positioning and location tracking in GPS-denied environments for pedestrians and vehicles. Wherever GNSS signals are unreliable, SYSNAV delivers trustworthy data for critical decisions. SYSNAV provides pedestrian tracking technology for dismounted soldiers, first responders, as well as industry workers.**

## Pedestrian dead-reckoning for GPS-denied environments

SYSNAV's patented magneto-inertial technology delivers real-time 3D (X, Y, Z) positioning using dead reckoning and sensor fusion algorithms. It provides accurate positioning in GNSS-denied environments such as dense urban areas, indoors, undergrounds, or in case of GPS jamming or blurring. It is embedded in wearable trackers for pedestrians. For permanent installations, UWB gateways can be added at building entrances to retain the highest precision over a long time.

## Training centers can harness digital data and improve tactical coordination.

In urban combat operations, real time blue force tracking of dismounted soldiers can add critical value for tactical efficiency. Adding such capability to your training centers allows you to measure progress over time, to benchmark against the best maneuvers, and to replay any situation for debriefing. Wearable trackers, UWB gateways and supervision software are part of the dedicated solution for training centers. The solution is also applicable to firefighters.

## Wearable technology for dismounted soldiers

SYSNAV takes part in R&D programs with France's Armaments Directorate on localization of dismounted soldiers.

SYSNAV customers include the French Ministry of Defense, Ministry of the Interior, Paris Airports, EDF, Thales, Airbus, MBDA, Naval Group, Butachimie, Stellantis, Michelin. Founded in 2008, with over \$15 million in revenue and a headcount of 100, SYSNAV is based in Vernon and Paris (France).

👤 Jacques-Etienne GRANDJEAN | VP Sales & Marketing

☎ +33 (0)6 70 27 66 16

✉ [jacques-etienne.grandjean@sysnav.fr](mailto:jacques-etienne.grandjean@sysnav.fr)

🌐 <https://www.sysnav.fr/?lang=en>

📍 72, rue Emile Loubet | 27200 VERNON | FR







# THALES

Comprehensive high-fidelity training for land forces

**Thales Training & Simulation activities support armed forces across the globe in staying mission ready.**

**We offer live, virtual and constructive solutions for servicemen and women at every level of command and at every step of their learning path.**

From our offices and production facilities in Australia, France, Germany, Switzerland and the United Kingdom, we deliver training solutions leveraging the latest technologies, such as Artificial Intelligence and Mixed Reality, while keeping things simple, robust, and efficient.

## Products

**Virtual small arms training solutions:** Virtual roundless marksmanship trainers providing immersive training backed by rich performance metrics. Able to replicate a shooting range or to simulate a tactical engagement.

**Tactical Engagement Analysis (TEA):** An innovative system based on cameras, sensors and image recognition algorithms providing unprecedented data to boost the learning outcome of live exercises.

**AFV Trainers:** Systems ranging from simple desktop solutions suitable for classrooms to high-fidelity motion platform simulators. Used for technical and tactical training of individuals, crews, and entire units when networked.

**GLADIATOR Modular Live Tactical Engagement Training System:** A system faithfully simulating combat in real world environments and against real adversaries. Used for evaluation of tactical skills, manoeuvring, and stress inoculation.

**Combat Staff Trainer:** A system for commanders and staffs to practice receiving / issuing orders, and applying the decision-making process while fighting artificial opponents in a virtual environment.

## Services

**Full Service Provider:** Operation of entire Combat Training Centres.

**Training as a Service:** Organization of on-demand training exercises and provision of equipment.

**MRO:** Maintenance, repair and overhaul of simulation equipment.

**Digital Twin:** Simulation for design engineering and validation process.



👤 Ismaël CHAUDHRY | International Sales Director

☎ +33 (0)1 34 22 81 79

✉ [sim.tts@thalesgroup.com](mailto:sim.tts@thalesgroup.com)

🌐 [www.thalesgroup.com](http://www.thalesgroup.com)

📍 1, rue du Général de Gaulle - OSNY | 95523 Cergy-Pontoise | FR

**THALES**  
Building a future we can all trust



# TOUTENKAMION GROUP

TOUTENKAMION GROUP, a key manufacturer for all your mobility projects

**Your simulator in a mobile, innovative and quality solution. Ultra-fast deployment time, severe environmental constraints, autonomy... Our mobile units offer you to prepare or maintain forces' training, from their base or in the operational field.**

## DESIGN CAPACITIES, TECHNOLOGIES, TAILOR-MADE

Toutenkamion Group is a French group in full expansion with a turnover of 35 M€, and a workforce of 400 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.

## MAKE YOUR SIMULATOR MOBILE

Make your simulator mobile to move it as close as possible to military staff or anywhere you want.

Thanks to mobile simulators, keep your teams operational, train them in new technologies, do prevention.

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

Our mobile units can be used for a wide range of training courses, such as:

- Military training: tank driving simulator, command and information systems simulator, firing simulator...
- Driver training: lorry, light vehicle, two-wheeler, train...
- Medical training: operating room simulator, patient simulator...
- Fire training: fire simulator, smoke propagation, rescue...

We have already delivered these different mobile simulators for simulator manufacturers, defence industries, defence government departments and services.



👤 Fabrice BOURDAIS | Business Development Manager

☎ +33 (0)2 38 95 50 59

✉ f.bourdais@toutenkamion-group.com

🌐 www.toutenkamion-group.com

📍 901 rue du Lieutenant Thomasset | 45270 LADON | FR



# GICAT

The French land defence and security  
industry association



39 rue Mstislav Rostropovitch  
75017 PARIS  
+33 (0)1 44 14 58 20  
contact@gicat.fr