

PRESS RELEASE

With LocIndoor, SYSNAV gives the armed forces a sovereign capability to locate the soldier when the sky goes silent

The Normandy-based deeptech unveils its Blue Force Tracking solution requiring no GPS infrastructure, the fruit of seventeen years of research and already proven in airport operations, industry, healthcare and homeland security.

Vernon (Eure), 12 June 2026 - At Eurosatory 2026, SYSNAV unveils LocIndoor, its 3D localization solution for the dismounted soldier in a GNSS-denied environment. Designed in Vernon and integrated into the CENTURION programme of the French Defence Procurement Agency (DGA), it embodies a French answer to one of the most immediate challenges of the modern battlefield: command blinded by the jamming and loss of satellite signals.

- **A breakthrough technology, seventeen years of research.** Expertise developed across multiple applications, in the service of the soldier's operational superiority.
- **When GPS goes down, LocIndoor takes over.** In an urban canyon in Ukraine, beneath the vaults of a burning Notre-Dame, inside a building: tracking personnel continuously is a strategic asset for the effectiveness of operations and the safety of the troops.
- **A mature solution, ready to scale.** Already deployed across 850 French government vehicles and in airport operations, SYSNAV technology is ready to equip the dismounted soldier.

ONE HUNDRED GRAMS IN THE POCKET, A TECHNOLOGY UNIQUE IN EUROPE

Behind LocIndoor lies a conviction that has driven SYSNAV's research since 2008: the GPS signal is not infallible for locating an infantryman in a theatre of operations, a firefighter in action, or homeland security forces. Yet that location is a tactical necessity for the proper conduct of the mission. SYSNAV develops **magneto-inertial navigation**, to locate the soldier continuously when the loss of the satellite signal renders forces blind, thanks to an unprecedented algorithmic architecture.



About Sysnav

Founded in 2008, Sysnav is an innovative French deeptech specialising in geolocation and motion-capture technologies.

Based in Vernon (Eure) and Paris, the company develops breakthrough high-precision navigation solutions that require no infrastructure and are built for complex environments and GPS-denied situations.

Its patented magneto-inertial navigation technology meets critical needs in sectors such as healthcare, industry, defence, road safety, aeronautics and autonomous vehicles.

Sysnav's customers include Paris Airports and the Ministry of the Interior's speed-camera vehicles.

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This achievement is the work of 120 employees, including 80 engineers and PhDs specialised in navigation and applied mathematics, trained in France's leading engineering schools. Its founder, David Vissière - a graduate of École Polytechnique, PhD from Mines ParisTech, former fighter pilot and former DGA engineer - has made SYSNAV the third-largest patent-filing SME in France, recognised internationally through numerous awards, and now holds the ambition of equipping the forces in the face of a **doctrinal shift with no technical solution** deployed to date.

The technological core is entirely designed and manufactured in France: patents, algorithms, calibration, hardware integration, support and services. Some components are deliberately drawn from consumer electronics - **available, at controlled cost** - but turning them into a precision navigation system relies on **fully sovereign expertise**. This is why SYSNAV today has no Western equivalent in its segment.

WHEN THE SKY GOES SILENT, SYSNAV READS THE EARTH

On the modern battlefield, GPS has become a source of vulnerability. Recent lessons learned, foremost among them Ukraine, confirm it: **satellite signals are systematically jammed, spoofed or masked**. Neither military GPS M-code nor high-precision RTK GPS provides a reliable answer once the soldier enters an urban canyon, an underground space or a building. The conclusion is shared: with no known position, manoeuvre is less effective. No Blue Force Tracking, no fire safety, no rapid evacuation. Command is blind to the location of its soldiers and loses tactical advantage as a result.

A few operational situations speak for themselves. **An infantry section advancing through a building in urban combat**: the moment the threshold is crossed, GPS drops out, the section leader no longer knows exactly where his personnel are, and the risk of friendly fire soars. **A commando operating in the metro or the basements of a sensitive site**: no satellite reaches them, yet one must know, to the metre, who is where. **Firefighters tackling a major blaze** - the Paris Fire Brigade (BSPP) at Notre-Dame, or SDIS firefighters battling a forest fire: smoke, confined spaces and the loss of radio signal make locating teams critical. In each of these cases, missing data undermines operational superiority.



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LocIndoor answers precisely this gap. The solution gives command back, **in real time and in 3D**, the position of deployed soldiers, indoors and outdoors, with no prior infrastructure and no reliance on satellites. **Accuracy is below 1% of distance traveled** without any external recalibration, a performance maintained through atypical movement, in smoke, in water, under fire. The Magneto-Inertial Tachymeter (TMI), the technical name of the device at TRL 5-6, offers several hours of battery life, integrates easily into today's soldier equipment thanks to its ergonomics, and is natively compatible with tactical communication standards (tactical radio, Wi-Mesh, PMR LTE, 4G, 5G).

The SYSNAV range comprises two complementary devices built on the same patented technology: the **PLD (Personal Location Device)**, already mature and ideal for military training with its twelve-hour battery life; and the **TMI (Magneto-Inertial Tachymeter)**, a prototype intended for operations, more precise still thanks to its use of the magnetic field gradient indoors. A supervision platform - SYSNAV Studio - provides 3D display of positions, identity tracking, battery management and man-down alerts fed directly to the tactical command post.

“When the sky goes silent, we read the Earth. That, in a single sentence, is what SYSNAV offers the French armed forces: the certainty that no jammer, no spoofing, no foreign withdrawal will ever leave them blind. Seventeen years of research and more than twenty patents have turned that promise into a capability. The next five years must make it a standard of the French defence industrial base.”

— David Vissière, President and Founder of SYSNAV

This promise is not a projection. The same magneto-inertial technology is already industrialised and deployed at scale in sectors where error is not an option. **Paris Airports (Aéroports de Paris)** have equipped their entire fleet (450 vehicles) with the Blue Force anti-collision solution. The **400 speed-camera vehicles of the Ministry of the Interior** carry an automated SYSNAV system. **ArcelorMittal** deploys the SafeGuard lone-worker protection solution at Gandrange, where locating people in dead zones is vital. **Stellantis, Renault, Valeo, Transdev** rely on the Blueforce Ad module for their autonomous vehicles. In healthcare, the Syde and Upsyde devices are world leaders in assessing treatments for neuromuscular diseases. What defence is asking for today, airport operations, industry, road safety and healthcare already use.

A MATURE SOLUTION, READY TO SCALE

Loclndoor is part of the **CENTURION programme** of the DGA, intended to prepare the equipment of the soldier of the future in direct cooperation with the Defence Innovation Agency (AID) and the French Army Staff. Development now continues with Loclndoor 2, sponsored by Thales, aiming for a demonstrator that the forces can evaluate at TRL 6: miniaturised, autonomous and ready to be initialised on dismounting from a vehicle. The same prospect is open to firefighters and first responders, whose operational needs are similar to those of the dismounted soldier.

Beyond the project itself, it is SYSNAV's industrial capacity that is changing scale. **Revenue has doubled between 2020 and 2025** and now exceeds 20 million euros. The company is targeting **50 million euros within five years**, sustained growth of 15% per year and a doubling of its workforce. An expansion of its premises is under way in Vernon. 70% of revenue is generated internationally, thanks to the trust of many partners.

Live demonstration of Loclndoor on the SYSNAV stand

Eurosatory 2026 — Hall [X], Stand [Y] — 15 to 19 June 2026

Live demonstrations throughout the day / [Press meetings by appointment](#)



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