



Atraksis

26 27

INNOVATION CATALOGUE



EDITORIAL

Every year, new technologies, new applications of artificial intelligence, and new capabilities in sensing, communications and decision support continue to enrich the fire and rescue ecosystem.

Companies innovate. Researchers explore. Institutions build frameworks. Fire and rescue services test and experiment in the field.

Yet innovation does not become useful simply because it exists.

It becomes useful when it addresses an operational need, is tested against the realities of the field, adopted by its users and sustainably integrated into organisations.

The challenge, therefore, is no longer simply to innovate. It is to turn innovation into operational capabilities.

This has been Atraksis' ambition since 2017.

Creating the conditions for this transformation to take place.

Identifying the needs that require attention.

Testing solutions as close to the field as possible.

Building lasting connections between all the stakeholders contributing to the development of operational capabilities.

And, when necessary, mobilising the levers needed to accelerate their deployment.

This approach is based on a simple conviction: no single stakeholder can address the challenges facing emergency services alone.

Innovation emerges from bringing together different areas of expertise, testing ideas against operational realities, and building lasting partnerships.

This catalogue brings together companies that, each in their own field of expertise, contribute to strengthening the operational capabilities of fire and rescue services.

Beyond the solutions presented, it is first and foremost a reflection of an ecosystem that has chosen to work together to shape the future of emergency response.

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CAPABILITIES

A capability-based perspective to better understand how the expertise within the Atraksis ecosystem contributes, in different ways, to the challenges facing fire and rescue services.



ANALYSIS & ANTICIPATION

Data collection, situational awareness, detection, assessment, modelling and anticipation.

AUM BioSync p.12-13

Simulation of organisational scenarios, risk analysis, and anticipation of team availability and operational needs.

AzurlA p.46

AI-powered video analysis to detect smoke and identify potential risks requiring intervention.

Duoverse p.47

Modelling of environmental phenomena and anticipation of their evolution.

FireTracking p.20-21

Early fire detection, geospatial data and fire-spread modelling.

Kayrros p.28-29

Satellite data, fire detection, modelling and impact analysis.

MEJOR Technologies p.30-31

Georeferenced mapping and analysis of drone data to improve situational awareness and decision support.

Pyronear p.36-37

Early detection of fire outbreaks through image analysis and onboard AI.

SylviaCare p.38-39

Early fire detection and infrared analysis of fire outbreaks and overheating.



PROTECTION & RESILIENCE

Protecting responders, monitoring their condition, reducing their exposure and maintaining their safety and integrity.

CAYLAR p.16-17

Guidance, alerts and responder monitoring in degraded environments.

MSA Safety p.32-33

PPE, connected SCBA, telemetry and responder status monitoring.

Peripheral p.34-35

Guidance and alerts to help avoid hazardous areas and make movement safer.



ACTION & RESPONSE

Capabilities that enable direct action in the field: reaching, rescuing, containing or managing an incident.

Angatec p.8-9

A remotely operated robot for reconnaissance, firefighting, smoke extraction, transport and evacuation.

Corben p.18-19

Mobile equipment for the immediate care of victims of heat-related illness.

HIJ - Help In Journey p.24-25

Geolocation and alert wristband for people in challenging environments.

TILDEV / SYOPÉ p.40-41

An onboard tool for completing and transmitting medical assessments during prehospital emergency response.



COMMAND & COORDINATION

Decision-making, information sharing, situational visualisation and resource management.

ArlData / GISinVR p.10-11

Immersive visualisation of the operational environment and real-time monitoring of resources and risks.

BatiFire p.14-15

Access to building information relevant to the preparation and management of emergency response operations.

HighWind p.22-23

Qualification and prioritisation of information received through emergency calls and reports.

Isara Technologies p.26-27

HORUS centralises data and provides hypervision and decision-support tools.

TRAAK p.42-43

Geolocation, alerts and biometric monitoring across all environments, including indoor and underground settings.

OPLIFE p.48

Situation analysis, resource allocation and stakeholder coordination.

Wizzilab p.49

Real-time location of people, vehicles and equipment.



PREPAREDNESS & TRAINING

Maintaining and developing operational capabilities, training, and preparing for complex environments.

VRCC 3D at Home p.44-45

Immersive simulation to prepare for, conduct and analyse operational training exercises.



TEC800

TECHNICAL ASSISTANCE
AND FIREFIGHTING ROBOT



PROTECTS MEN

Limits staff exposure
Protective shield for the approach



SCOUT

Removal of doubt
Scan the environment



OPERATIONAL SUPPORT

Maximum load: 800 kgs
Pulls 300 m of 3" loaded water hoses



MISSIONS

Extinguishing, evacuation, transport,
smoke extraction

MADE IN FRANCE



STRENGTHS



Simple and intuitive
operation; user friendly



Fully customizable



Off-road mobility



Compact dimensions



Electric motors



In-and-out



ANGATEC: robotics serving responder safety

Based in La Rochelle, France, ANGATEC designs and manufactures remotely operated ground robots to support fire and rescue services, industrial operators, defence forces and critical infrastructure operators during interventions in hazardous environments.

Its TEC800 robot was developed with one clear objective: to provide a robotic solution whenever conditions present an excessive risk to personnel. Its all-terrain design and modular architecture enable it to perform a wide range of missions, including reconnaissance and situation assessment, firefighting, smoke extraction, equipment transport and casualty evacuation.

Depending on operational requirements, the TEC800 can be equipped with various modules, including a water or foam monitor, day/night and thermal cameras, gas and temperature sensors, a ventilation fan, casualty evacuation support, a winch and other mission-specific equipment.

It can carry loads of up to 800 kg and tow up to 300 metres of charged 70 mm fire hose.

Remote operation allows teams to maintain observation and intervention capabilities while remaining at a safe distance from the hazardous area. This approach is particularly suited to high-radiant-heat fires, tunnels, underground car parks, industrial sites, underground environments and potentially hazardous atmospheres.

The TEC800 is already used or tested in demanding operational environments, including by fire and rescue services and at sites such as Eurotunnel, CERN, industrial facilities and underground mining operations.

Through the TEC800 and its future developments, ANGATEC pursues one clear ambition: to put robotics at the service of responders, reducing their exposure to risk while increasing their operational capabilities.



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Augmented Command Solution

GISinVR

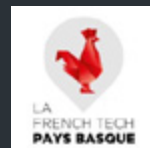
TRAINING, 3D SSRI, 3D SALVAGE PLAN

Save time, reduce travel, train better and make better decisions.



Developed in France, GISinVR transforms operational sites into immersive 3D environments to improve emergency preparedness, train teams and support command operations. Your data remains fully sovereign, secure and stored exclusively within your own IT infrastructure.

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Augmented command

GISinVR: the augmented command solution

An immersive digital twin of your territory, connected to your own data and the field. GISinVR places you and your firefighters right at the heart of real-world operations, from prevention through debriefing.

The concept

GISinVR is deployed within your infrastructure and connects directly to your information system to leverage your operational data, data shared by your institutional or private partners, and Open Data sets.

You are immediately immersed in your territory and can use it at every stage of a rescue mission, whether for prevention, training, from the forward command post or in the crisis center.

Your Applications:

• Prevention

Develop and test your procedures in historic districts, dense urban areas, rugged terrain, or at sensitive sites.

• Anticipation

Assess and simulate the impact of floods and fires on your territory.

• Training

Train your firefighters in a classroom setting on the specific characteristics of your territory and infrastructure, without disrupting sensitive sites that are operational or open to the public.

• Operational Management

Manage operations in real time by tracking the location of your personnel and equipment, and the risks they face, directly within your area's data.

• Lessons learned

Ensure accurate, comprehensive, and context-specific debriefs to optimize your procedures and future operations.

Sovereignty & Architecture

GISinVR is a no-code, plug-and-play, sovereign solution available on-site, on-premises, or in a private cloud, ensuring complete control over your data.

GISinVR integrates with your existing environment and automatically aggregates your data streams and business applications. You don't need to change your tools or your data management and update procedures. The solution lets you consolidate and visualize GIS, BIM, Gaussian Splatting, IoT, AI agents, drone, and Open Data across your region, independently and without the need for specialized development.

Our support

Our multidisciplinary team, made up of infrastructure and regional experts, geomatics specialists, systems engineers, and developers, supports you at every stage of the project.



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LOYALTY.
TRUST.
ENGAGEMENT.



Turn your ops data into explainable decisions with the digital twin of your fire department, based upon european regulations compliant algorithms.



ORBE / OPS READY

A secure, sovereign and scalable ecosystem of operational applications :
mobility, advanced availability
real-time monitoring, planning...



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AUM-BIOSYNC



Software publisher

Our mission: design sovereign, secure software, applications, and algorithms that streamline the deployment and organisation of 24/7 teams, while supporting you through their implementation and day-to-day use.

We have developed two software ecosystems:

- **OPTeam**, a digital twin of your operational organisation, lets you run simulations, analyse risks, and test multiple coverage scenarios based on the variables and parameters you choose to adjust. All our simulation algorithms are traceable and transparent.
- **OPS Ready**, a secure platform for operational supervision and real-time team mobilisation. Through its ORBE web interface, you can easily manage the settings across our mobile apps and web mapping overviews. For instance, you can anticipate unexpected events and team workload based on availability and skills, send customised or automated alerts, create profiles, and granularly manage

user access rights and privileges with enhanced tracking and digital security.

Regularly audited by cybersecurity experts, our ecosystems run on a 100% sovereign infrastructure compliant with European data protection and artificial intelligence regulations. This is why we actively partner with supervisory institutions on strategic, sovereign digital projects.

At AUM Biosync, you are never left to deal with technology alone. You always speak with operational professionals (firefighters, law enforcement officers, etc.) who understand your constraints firsthand. Our field expertise, combined with our teaching and research activities in top universities, enables us to deliver tailored studies and practical training for any project related to data management or governance.

Feel free to schedule a meeting with us to explore our use cases and studies. We look forward to connecting soon!



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The **only solution** delivering **real-time, direct access** to building information for the **fire department**



Digital safety solutions

BatiFire: access information on thousands of buildings.

In an emergency, every second counts. The faster emergency responders can access reliable information about a building, the more effective and safer their response. This is the idea behind **BatiFire**, a digital platform designed **by firefighters, for firefighters**.

The platform enables building owners and operators to continuously enter and update all essential information about their facilities. Emergency response plans, access conditions, hazard inventories, site-specific procedures, emergency contacts, critical assets to protect and other key operational information are centralised in one place and made instantly available to first responders.

Emergency teams can access this information directly on a tablet or smartphone, either en route to an incident or upon arrival, simply by scanning a QR code displayed at the building entrance. The information is also available through a secure web interface, allowing emergency dispatch and command centres to review building data before responders arrive on site.

This comprehensive knowledge of the premises helps emergency services develop faster, safer and more effective response strategies.

For building owners and operators, BatiFire is a powerful crisis management tool. By supporting emergency services with accurate, up-to-date information, the platform helps reduce risks to people, limit property damage and accelerate business recovery following an incident.

Committed to creating social impact and B Corp certified, BatiFire is provided free of charge to all French emergency services as well as to building owners and operators. This business model is supported by a premium digital safety register solution. Since its launch in early 2022, the platform has delivered a high level of security to ensure the confidentiality and protection of sensitive data.

BatiFire also evolves through its active UserClub, where building operators and emergency services work together to continuously improve the platform. By integrating user feedback, technological innovation and state-of-the-art emergency response practices, BatiFire pursues a clear ambition: to remain the leading digital solution for firefighters and emergency services, in France and around the world.



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Sensing technologies

MULTIMODAL TECHNOLOGIES THAT ENHANCE SENSES

EMBEDDED GUIDANCE AND ALERT SYSTEMS
FOR CHALLENGING ENVIRONMENTS



Alerts



Guidance

Founded in 2002 and based in Essonne, CAYLAR is specialized in scientific instrumentation, magnetic systems, and perception and communication technologies

Thanks to our expertise in embedded systems and the integration of electronics, mechanics, and textiles, we offer solutions that enable operators in the defense, security, and emergency response sectors to perceive and communicate in new way, particularly in degraded environments (underground, fire scenes, at night) or in crowded spaces (helicopter cockpits).

In particular, our patented high-density vibrational stimulation technology enables communication and access to information without relying on sight or hearing. The concept is simple: each vibrational signal felt on the body (position, rhythm, movement) has its own meaning, based on a highly intuitive tactile language. For example, an intense vibration felt on the left can alert an operator to a danger on their left, or a vibrational movement from left to right can signal them to move to the right.

With vibration modules distributed 360° around the waist, as well as embedded compass and GPS, our haptic belt offers navigation and guidance functions without the use of sight. In a noisy operational environment, vibrations can also be used for communication between operators. Finally, when paired with sensors (e.g., heart rate, CBRN, temperature), our technology provides alert and monitoring functions.

By enabling firefighters and first responders to navigate, communicate, and receive alerts in the operating field, our technology contributes to the effectiveness of rescue operations and the safety of responders.

Finally, because we like to tailor our products to the various professions involved, we are also developing a multimodal communication harness designed for K-9 teams. By integrating our vibration technology, speakers, and sensors, this harness allows a K-9 handler to track and communicate remotely with the dog.



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First aid



CORBEN EMERGENCY COOLING TUB

AN ESSENTIAL RESPONSE TO HYPERTHERMIA

CORBEN EMERGENCY COOLING TUB

Developed in collaboration with the Paris Fire Brigade (BSPP), the CORBEN Emergency Cooling Tub is designed for the management of hyperthermia during emergency response operations, sporting events, and episodes of extreme heat.

Portable, durable, and deployable in less than two minutes, it enables rapid immersion of the patient to effectively reduce core body temperature and limit the risks of severe complications.

Designed to meet the needs of emergency services and healthcare professionals, it combines ease of use, rapid deployment, and robustness for optimal field performance.

Key Features

- » Developed in collaboration with the Paris Fire Brigade (BSPP)
- » Manufactured in France – Exclusive CORBEN design (registered model)
- » Rapid cooling through immersion
- » Fully deployable in less than 2 minutes

- » Aluminum structure, lightweight and durable
- » Compact folded size for easy transport and storage
- » Reinforced PVC liner with integrated support frame
- » Drainage system with 5 m evacuation hose
- » Capacity: 300 litres

Designed for Field Operations

Thanks to its compact size and modular design, the CORBEN Cooling Tub can be transported easily and integrated quickly into emergency response equipment. Its robust aluminum frame and reinforced liner ensure reliable performance in the most demanding environments.

It is particularly suited for:

- Fire and rescue services
- Civil protection and emergency response organizations
- Sporting events and competitions
- Public events and mass gatherings
- Industrial sites exposed to high temperatures
- Medical and paramedical organizations

Cool Fast. Preserve Vital Functions. Save Lives.



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AI-Powered Early Detection of Wildfires

The most advanced technological solution for wildfire prevention, based on real-time video analysis from cameras installed at elevated vantage points.

Ultra-Fast & Precise Detection

Wildfires detected in under 3 minutes.
Fire location accuracy within 100 meters
— even from 20 kilometers away.
False alarm rate below 10%, even
on low-bandwidth telecom networks.

Accelerated Response

Real-time fire spread simulation and automa-
tic highlighting of strategic points of interest:
water sources, access routes, and more.



FOLLOW US ON



FIRE TRACKING



Software publisher

FireTracking offers a cutting-edge, sovereign solution for the automatic detection and confirmation of forest fire outbreaks.

Our technology empowers fire services, forest managers, and infrastructure operators to respond faster and more efficiently—starting from the very first signs of smoke.

A state-of-the-art artificial intelligence platform

Our proprietary platform detects wildfire outbreaks within minutes, with exceptional accuracy and an extremely low false alarm rate. **It leverages a unique combination of deep learning, generative AI, and advanced optical image processing.**

But FireTracking goes further, by integrating fire spread simulation models and critical geospatial data (water reserves, access routes, sensitive zones, etc.), our intuitive and user-friendly interface streamlines intervention planning and enhances coordination on the ground.

A turnkey, interoperable solution

From equipment deployment to multi-network connectivity (fiber, 5G, satellite) and continuous monitoring, FireTracking delivers a fully integrated service. Our solution seamlessly integrates with clients' existing infrastructure—including cameras, networks, and servers.

Preventing human, environmental & financial losses

Reducing burned surface area helps protect ecosystems, infrastructure, and local industries—while minimizing resource use for firefighting. Every minute saved translates into tens of thousands of US dollars—and hectares of nature—preserved.

A sovereign french technology

Developed in France, FireTracking is powered by a team of experts in AI, telecommunications, and field deployment.

The solution can be rolled out in just a few weeks and is available through multiple public procurement platforms to streamline ordering for public institutions.



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AI & emergency communications

AI serving emergency communications

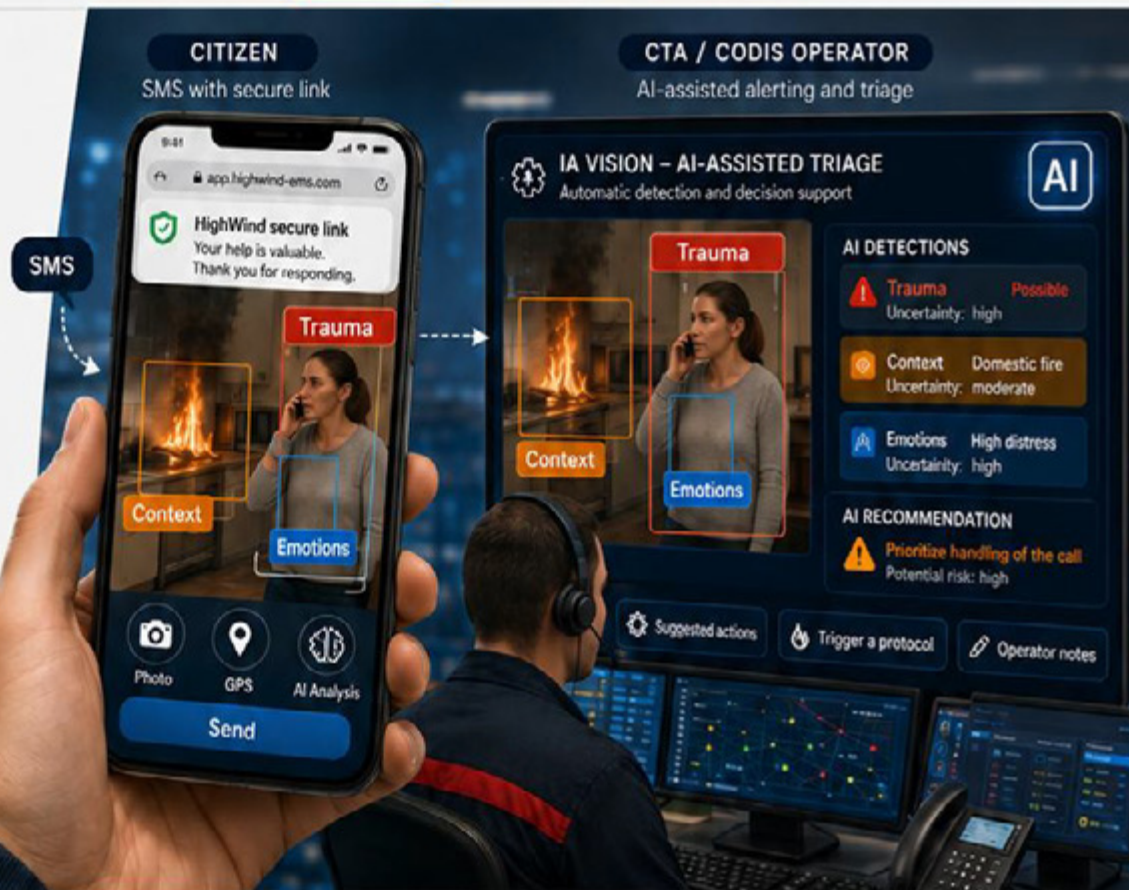
Enhancing pre-answer time. Supporting crisis triage.

1 IA Vision

Pre-diagnose emergency calls
18-112 and 15-112

- Secure web link sent by SMS, with no app to install
- Photo + GPS location to improve understanding of the situation
- Alerts the human operator in case of a possible life-threatening emergency

Trauma • Context • Emotions



HighWind is a pioneering French start-up specializing in **AI-enhanced emergency communications**.

Its patented AI technology uses Computer Vision to analyze three complementary dimensions — Trauma, Context and Emotions — in order to identify the nature and severity of an emergency situation more quickly. By combining the capabilities of the public's smartphones with the power of the Cloud, HighWind solutions require **no application to be installed**. They help make better use of pre-answer time during everyday emergencies, while also improving the collection, qualification and prioritization of information during major crises.

For 18-112 emergency calls: IA Vision

IA Vision identifies the phone number of the caller contacting the emergency call centre and automatically sends an SMS containing a secure web link. Through this web app, the user can transmit photos of the situation together with their GPS location, with no download or prior registration required. This information is analyzed by AI to detect critical elements and alert the operator to a possible **life-threatening emergency** within the call queue. The analysis and detected elements are then presented to the operator to improve situational understanding and support decision-making.

IA Vision never replaces human judgment: the solution highlights relevant signals, supports call prioritization and can also reduce operators' direct exposure to particularly sensitive visual content.

For the FR-ALERT system: Advance-ALERT

A web link can be embedded in FR-ALERT messages to redirect the public to the Advance-ALERT web app. By sharing their GPS location, users can report that they are safe (GREEN), send photos of an **observed danger** (ORANGE), or report an **emergency requiring assistance from first responders** (RED) which also triggers a 112 emergency call and send a photo.

AI supports situation verification, refines the assessment of each event's nature and criticality, and helps authorities **triage and prioritize incoming reports**. The information received can be displayed in real time on an operational map to improve overall situational awareness.

Advance-ALERT therefore transforms FR-ALERT into a two-way communication channel, enabling authorities to collect critical information directly from the field while **reducing the risk of emergency call centre overload**.

2 Advance-ALERT

Allow the population to report their status during crises via FR-ALERT

- Upward communication from the population during a crisis
- Situation verification through photos, geolocation and AI analysis
- Helps prioritize reports and avoid call saturation



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A BRACELET TO CONTINUOUSLY TRANSMIT YOUR GPS POSITION



Stay connected in real time!

- Our solutions provide GPS location updates every minute.
- The information sent by the tracker is received by your designated contacts.

• A search system that doesn't use GPS and works even underground!

INDOORS AND OUTDOORS

NAUTITRACK is a geolocation solution based on a connected wristband that works both indoors and outdoors, utilizing **connections to both mobile and direction-finding networks**. It transmits GPS positions continuously when outdoors.

It is a robust, easy-to-implement solution that operates in both land and water environments.



Telecommunications & connected devices

HIJ is a French start-up specializing in the geolocation of people and equipment in both indoor and outdoor environments, including maritime settings.

Our geolocation solution for individuals is based on the NautiTrack connected wristband, which connects to two types of networks:

- a terrestrial 4G network (LTE-M/NB-IoT) extending up to 3–5 nautical miles offshore;
- a direction-finding network based on Owley Search and Rescue technology. Owley technology was developed to enable localization without infrastructure or GPS in extremely challenging environments where other technologies fail. Thanks to enhanced sensitivity—offering link budgets of around 170 dB, making it 1,000 times more sensitive than conventional systems—signal penetration capability is significantly boosted. In trials conducted with the Paris Fire Brigade (BSPP), we demonstrated the ability to transmit signals through more than eight levels of basements and building structures.

- The wristband is rated for depths of up to 60 meters and offers a 12 hours battery life based on a reporting every minute. It features an alarm button that allows the user to notify designated contacts via SMS and email when 4G coverage is available.

Key features:

- Very easy to deploy
- Continuous GPS position transmission every 10 minutes (programmable via app down to 1 minute)
- Alarm sent to a private network, without alerting national emergency services
- Highly compact wristband design with an alarm button
- 15-day battery life in standard mode (positioning every 10 minutes for 8 hours/day)
- Withstands depths of up to 60m
- Contactless inductive charging solution
- eSIM-based; a global solution subject to local carrier coverage
- Search & Rescue direction-finding network that operates indoors

This solution is therefore ideally suited for geolocating individuals during maritime operations, flood events, or inside buildings.



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Pleumeur-Bodou
FRANCE



Software publisher

An Augmented Command Post

HORUS is a 100% web-based application that centralizes incidents, calls, personnel, vehicles, fire stations, mapping, water defenses, and operational documentation into a single pane of glass

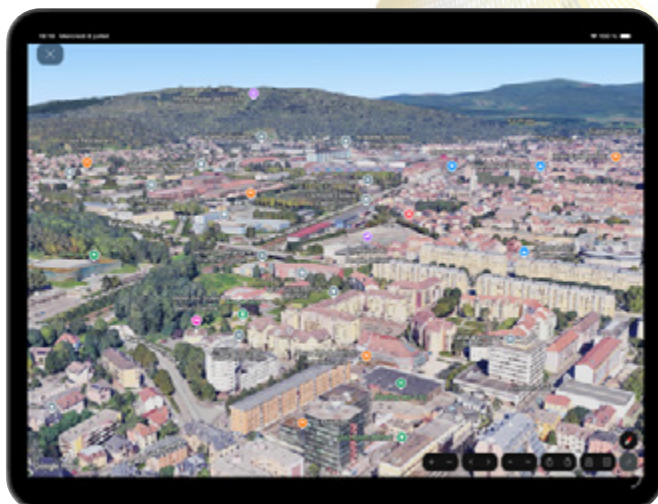
Enhanced by Sovereign AI

Powered by sovereign Artificial Intelligence, developed by Isara Technologies in close collaboration with leading AI researchers. Automated generation of complex tactical orders and situational reports (OCT and SAOIELC) in just seconds, allowing command staff to focus entirely on critical decision-making.

The operational ally that **complements and supercharges** your existing CAD system.



A Platform Built for the Field



100% Customizable Dashboard

Supervision des effectifs, disponibilité des engins, couverture opérationnelle, charge CTA/CODIS - mise à jour en continu

Cross-Platform Flexibility

Fully optimized for seamless display across smartphones, tablets, PCs, and command center video walls.

Live Operational Supervision

Continuous, real-time tracking of personnel, vehicle availability, operational coverage, and Emergency Dispatch Center (ECC / CODIS) workloads.



Before the Incident

Advanced forecasting and reliable 7-day operational activity predictions to optimize resource allocation.

During the Incident

Collaborative digital environments for standardized tactical briefings and operational orders.

After the Incident

Instantaneous generation of comprehensive PDF incident reports. Automated data valuation and structured After-Action Reviews (AAR / RETEX).

Supporting Your Missions:
Before, During, and After

HORUS, The Operational Hypervisor

Designed by Isara Technologies for SDIS, HORUS is not just another management system. It is a sovereign hypervision overlay connecting to your existing tools (SGO/SGA) to transform raw data into operational intelligence.

Whether you are a call center operator, crew chief, or incident commander (COS), HORUS supports you on every screen with an intuitive interface, available even offline. Its main asset is intelligent emergency supervision. HORUS digitizes doctrinal tools: communication orders (**OCT**), tactical reasoning (**SAOIELC**), and operational mapping. Sovereign and local AI modules automate incident analysis to reduce your operations room's mental load.

Securely deployed on your servers, HORUS guarantees data sovereignty (GDPR and NIS2). It integrates nonintrusively, enhancing your current systems while multiplying their decisionmaking power to anticipate emergencies rather than merely react to them.

Intelligence at the Service of the Field

HORUS puts innovation at the service of emergency responders through artificial intelligence. Its decision support system drafts your summaries, COZ reports, after-action reviews (RETEX), and press releases, saving critical time for command staff.

During interventions, specialized AI agents analyze the situation and publish structured tactical notes. HORUS anticipates operational activity using predictive algorithms to detect periods when the daily operational plan (POJ) may be under strain.

The embedded professional portal brings together your essential tools:

- Dedicated calculation tools (hydraulics, medical scores, chemical risks);
- 2D and 3D mapping enriched with multi-source environmental analyses;
- Configurable dashboards for instant departmental supervision.

HORUS enhances decision reliability, reduces cognitive load, and protects responders. More than just supervision software, it is your SDIS's strategic partner, from the emergency call center to the heart of the intervention.

HORUS: the operational tool created by firefighters, with firefighters, for firefighters.



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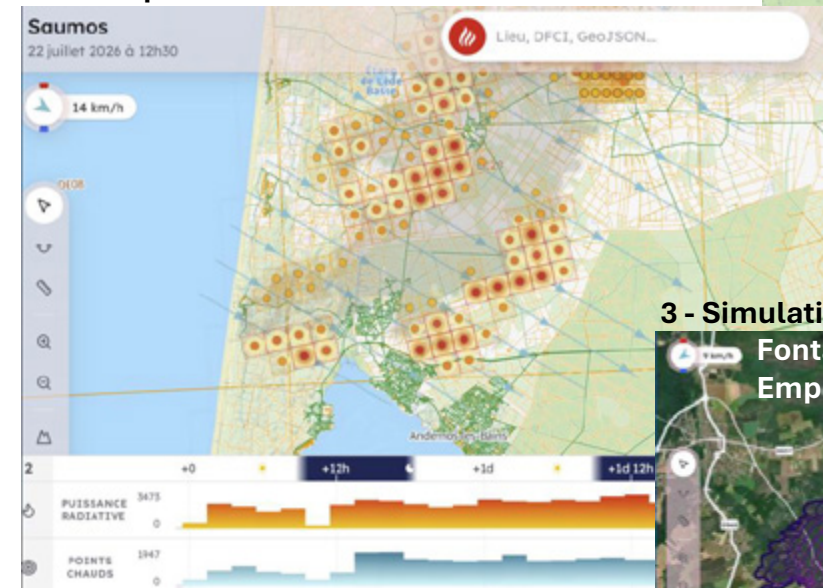
5 geospatial services for fighting fires: BEFORE, DURING, and AFTER.

Covering the entire country, Firewatch is used by over 45 departmental fire and rescue services (SDIS) and 300 individual users.

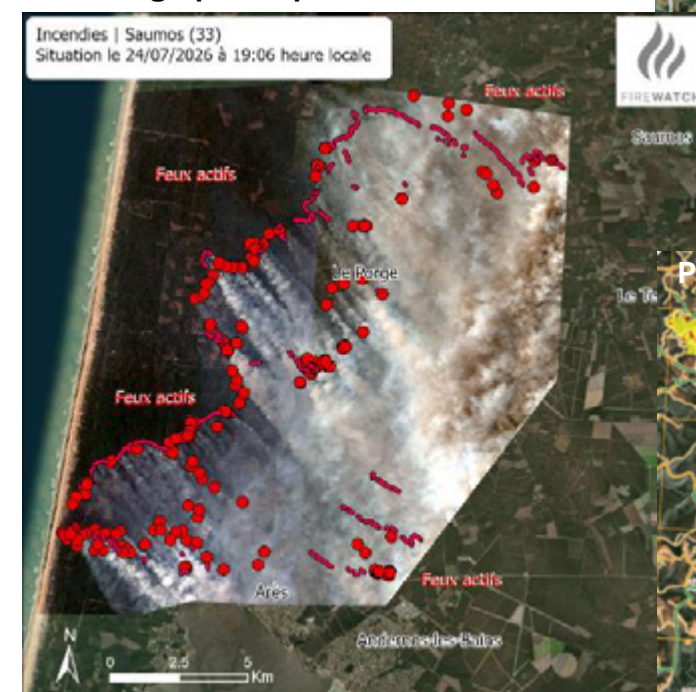
All data can be downloaded and used within users' existing GIS systems, and the platform itself can integrate external data layers.

Funded by the France 2030 initiative (CNES, DGE, COGIC), Firewatch is available to civil security agencies as well as for inter-agency use by the ONF, DDTs, Météo-France, and prefectures.

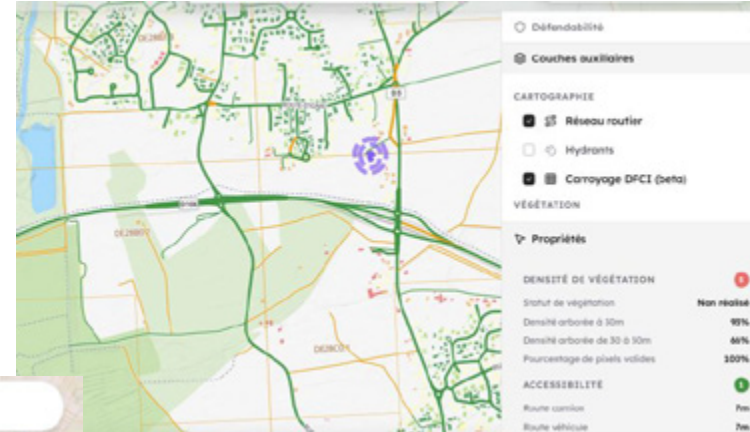
2 – Hot spots automatic detection



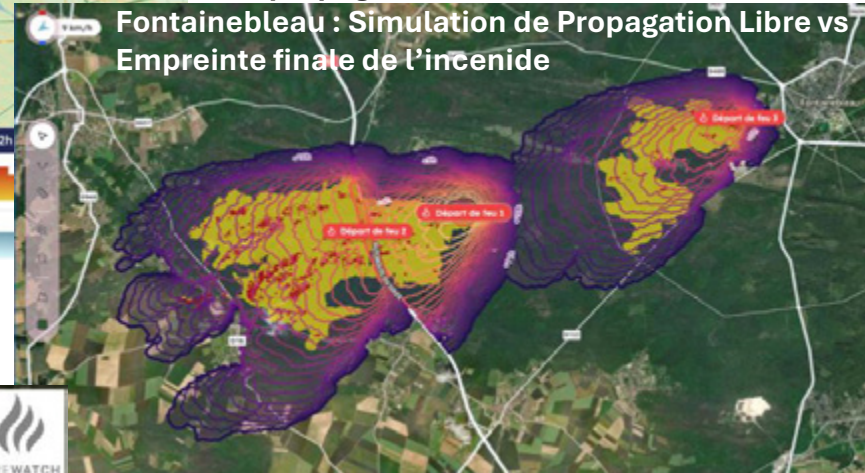
4 - Cartographie rapide THR 24/24



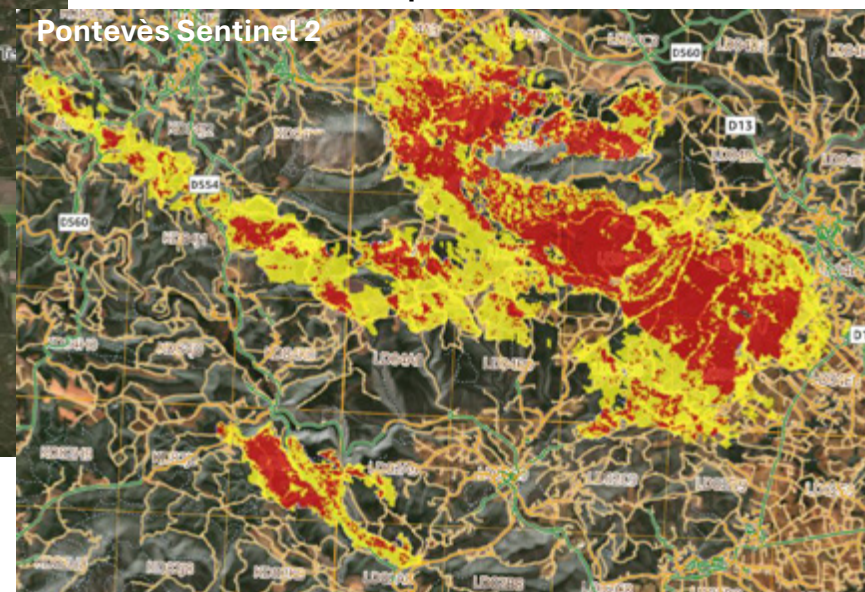
1 - Defensibility



3 - Simulation de propagation



5 - contours automatiques 5m x 5m



In collaboration with Sertit, Kayros developed the **Firewatch** services with and for the SDIS (departmental fire and rescue services), defense zones, and the DGSCGC (General Directorate for Civil Security and Crisis Management).

1-Building defensibility:

Updated three times a year, a score is assigned to each building based on a combination of vegetation **density** within a 50-meter radius, **accessibility** for forest fire trucks (CCF), and distance to **hydrants**.

Objectives: pre-season prevention, support for land-use planning, identification of critical points during a crisis, and post-incident analysis (Retex)—specifically, the value of assets saved.

2-Hotspot detection every 10 minutes (moving to 2.5 minutes by October 2026):

Uses a combination of satellite sources for **day-and-night detection** of fire ignitions and monitors the spread and radiative power evolution in near real-time.

3-Spread simulation:

Developed based on **Jean-Baptiste Fillipi's model and in collaboration with him**, this new model is calibrated against recent fires, validated by **Entente Valabre**, and triggers automatically upon the detection of a new fire (using astronomical and meteorological data via the Météo-France API). It allows for the ergonomic simulation of parameters—such as wind, humidity, ignition point, spotting, and firefighting resources—directly on the map, calculating projections up to 12 hours ahead in 30 to 90 seconds for anticipation, exercises, training, and post-incident analysis.

4-Rapid VHR (Very High Resolution) mapping:

Operated by Sertit on a 24/7 basis, this service allows SDIS units to request the first available VHR satellite image. It produces a report—covering fire perimeters, hotspots, burned area, and impact severity—on average every three hours, with a resolution of up to 30 cm.

5-Automatic perimeters:

Every six days, a map is automatically generated showing fire perimeters, burned area, and impact severity for all fires, at a resolution of 5 meters.



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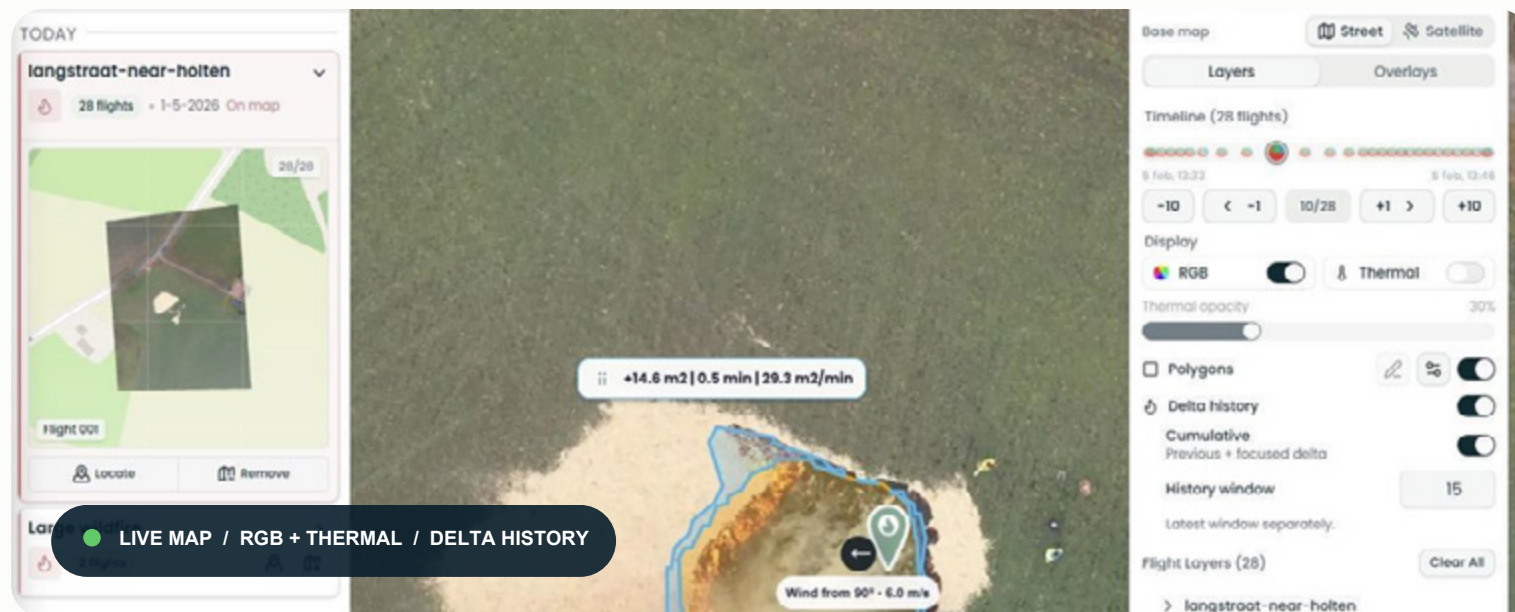
CRISIS AND HAZARDS RESPONSE IMAGING SYSTEM

Turn live drone imagery into a shared operational picture.

CHRIS connects to the equipment emergency-service drone teams already use and turns incoming RGB or thermal imagery into a geo-referenced map for faster situational awareness, clearer handover and less manual mapping.



Real-time drone mapping


FROM EXISTING EQUIPMENT TO DECISION SUPPORT
1 Connect

Use an existing drone and a compatible RGB or thermal sensor. Link the validated controller or imagery route to CHRIS Cloud.

2 Process and map

For a validated data path, CHRIS creates a map overview within seconds after imagery arrives.

3 Decide and share

Review layers, polygons, measurements and change over time in one shared operational map.

Cloud onboarding: about 10 minutes

No fleet replacement is required for a validated CHRIS Cloud setup. Once the account, controller route and connectivity are ready, CHRIS links to the team's existing equipment.

Have this ready

- MEJOR-validated DJI Enterprise drone and controller
- Organisation account at cloud.mejortechnologies.com
- Stable controller internet for cloud linking
- A short test session for first connection and map check

Operational outputs

- Inspect mission layers and RGB or thermal context
- Identify active-fire or hotspot polygons on suitable imagery
- Measure distance, area, perimeter and incident extent
- Compare repeat flights using delta-history layers
- Share or export the agreed operational result path

Decision-support software: outputs must be assessed within the team's own SOPs and incident-command process.

MEJOR Technologies develops situational-awareness software for emergency services.

CHRIS turns incoming RGB and thermal drone imagery into a clear, geo-referenced map that teams can review, measure and share. CHRIS works with equipment drone teams already use. A validated DJI Enterprise drone and controller can connect to CHRIS Cloud without replacing the fleet. Once the organisation account, controller route and internet connection are ready, onboarding takes a short guided session.

As imagery arrives, CHRIS builds a consistent map view. Operators can inspect mission layers, identify relevant areas, create polygons and measure distance, area, perimeter or incident extent. The result is easier to interpret than individual images and easier to hand over between field teams and command.

The shared map also supports repeat flights. Delta-history layers help teams compare observations, record change and keep the operational picture current throughout the incident cycle.

CHRIS supports wildfire reconnaissance, search and rescue, flooding, industrial incidents, urban logistics and event management. The same workflow can capture hotspots and active-fire boundaries, search sectors, affected routes and assets, access points and temporary obstructions.

The platform is built for operational adoption, not a standalone demonstration. MEJOR works with each team to validate the connection, run a test mission and review the map. The workflow can then be introduced through training and exercises before being aligned with local standard operating procedures.

CHRIS provides decision-support information. Outputs remain subject to operator assessment and the organisation's incident-command process. Responsibility stays with the professionals using the information, supported by a clearer basis for coordination, reconnaissance and reporting.



Stijn MEIJERS

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Safety equipment



ournissant les bonnes informations aux
nes personnes au bon moment, **le**
ème contribue à améliorer la sécurité
pompiers et la connaissance de la
tion sur le terrain.

dée en 1914, MSA Safety est le leader
dial dans le développement, la
cation et la fourniture de produits de
rité qui protègent les personnes et les
structures.

nombreux produits MSA intègrent une
mbinaison d'électronique, de systèmes
caniques et de matériaux avancés pour
éger les utilisateurs contre des situations
gereuses ou mortelles.

amme complète de produits de la
été est utilisée par des travailleurs du
de entier dans un large éventail de
chés, notamment l'industrie pétrolière,
ère et pétrochimique, les services
cendie et de secours, l'industrie de la
struction, l'exploitation minière et l'armée.





PERIPHERAL
AUGMENTED AWARENESS

IN-MOTION
ORIENTATION
& GUIDANCE
TECHNOLOGY



WWW.PERIPHERAL.FR
CONTACT@PERIPHERAL.FR

PERIPHERAL — Guiding, Alerting and Interacting in the Field

PERIPHERAL offers firefighters and personnel operating in high-risk environments a solution that delivers the right information at the right time, without distracting the operator from their mission.

During an operation, firefighters must simultaneously move, assess their surroundings, act, communicate and make decisions, often in conditions of smoke, poor visibility or disorientation. In these stressful situations, conventional interfaces — screens, smartphones or radio — require part of the operator's attention and can be difficult to use.

PERIPHERAL provides a **unique light-based alert, guidance and orientation system** that delivers information instantly, while the operator is moving, without requiring training and while reducing cognitive load. The operator keeps their full field of vision and can work hands-free.

PERIPHERAL is a universal technology that harnesses the brain's automatic vigilance

mechanisms associated with peripheral vision.

A dedicated insert is integrated into the protective mask or eyewear. It connects to Command and Control (C2) systems and can transmit routes, alerts and other operational information, either manually or automatically. Based on the operator's position and head orientation, the information is perceived instantly. The operator can also **designate a target or point of interest simply by pressing a button**. Impact detection can identify abnormal situations and provide an immediate indication of the firefighter's **state of consciousness or operational status**.

PERIPHERAL integrates naturally into existing operational processes without requiring them to be changed. This technology opens the way to a new generation of **digitally augmented first responders**, interacting with C2 systems while remaining aware of their surroundings, in control of their decisions and focused on their mission.

PERIPHERAL supports firefighters at the heart of tomorrow's operational challenges.



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AUTOMATED WILDFIRE DETECTION & MANAGEMENT SYSTEM !🔥

The first open-source early-detection solution, **developed in collaboration** with regional fire and rescue services (SDIS) and **deployed in the field**.

1.5 MILLION HECTARES MONITORED

700 KM² COVERED PER SITE

DETECT • LOCATE • RESPOND

Pyronear: catching fires before they become wildfires

For fire and rescue services, wildfires have become a daily challenge: more frequent, faster, spread across wider ground. In 2025, around 20,000 hectares burnt in France. The first minutes decide how much burns and how many resources it takes.

Pyronear is a non-profit organisation (association loi 1901) that has been building an open-source early wildfire detection system since 2019. We build it with fire services and for them: needs, tests and field feedback come straight from the SDIS crews we work with. We do not sell a black box: we equip public services and local authorities to deploy, adapt and maintain their own system.

Autonomous stations, each built from four to five high-resolution cameras and a micro-computer, sit on high points. Every station takes one image every 30 seconds and analyses it on the spot, using an on-device AI model. As soon as smoke appears, the alert and the images go to a secure supervision portal, where an operator confirms and locates the ignition. Where cameras are already in place, the system connects to them with no extra hardware. Setting up a site takes half a day.

Analysis runs on the station, not in the cloud. That keeps detection reliable in low-bandwidth areas and cuts the volume of data sent back. The code and the dataset, 33,000 annotated images in open data, stay open: each service keeps control of its own system, with no lock-in to a single supplier, and gains from improvements made across the community, which brings together firefighters, research labs and computer-vision specialists.

Today Pyronear runs 80 deployed sites, guards 1.5 million hectares and works across five countries: France, Spain, Chile, Belgium and Germany.

Each site covers up to 700 km². In Fontainebleau forest, where eight Pyronear cameras cover the massif from four pylons in partnership with SDIS 77 and TDF, the system caught an ignition at the Apremont gorges on 21 April 2026 the moment it started: firefighters moved in and the fire was held to about 6,500 m². That kind of head start, up to two hours against a conventional first-call alert, is measured in hectares spared and water saved, since putting out a one-hectare fire takes roughly 22,000 litres.



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VERY EARLY FIRE DETECTION

AI + INFRARED SENSOR TECHNOLOGY

User Friendly Monitoring Platform

Autonomous Sensor

www.sylviacare.fr

SYLVIA
CARE

SYLVIACARE



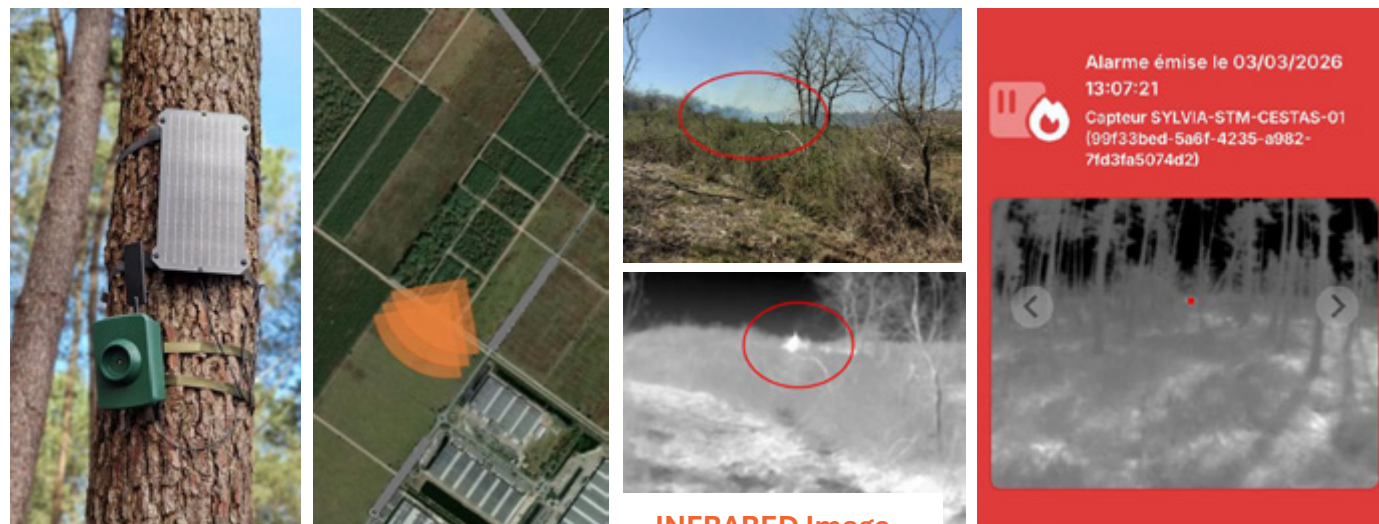
Very early fire detection



Forests - Natural Areas - Crops

Optimal protection for high-risk areas (forest interfaces with houses, roads, human activities...)

- Detection of ignition of a small fire < 5min.
- Geolocation < 50m.
- Real time image transmission for distance doubt removal.
- Very low level of false alarms : unaffected by dust clouds , smoke, clouds, mist...
- Quick and easy to install, low investment.



INFRARED Image



Industrial facilities – High-risk facilities – Energy - Warehouses

Detection of thermal anomalies before the appearance of flames and smoke !

- Efficient add-on on fire existing fire detection systems.
- Quick and easy to install.
- Distant detection of thermal anomalies on the whole electrical equipment (motor, converter, transformer, solar panel, batteries...) and in waste management (biomass) through comprehensive infrared image analysis.

Because every minute counts (especially the first ones)!

✓ To prevent a small fire from turning into a catastrophic blaze, action must be taken from the very first moments.

✓ For emergency services to intervene quickly, effectively, and safely, the following conditions must be met:

- **VERY EARLY DETECTION** of even the smallest fire (a few m²) < 5 min.

- **HIGHLY PRECISE GEOLOCATION** < 50 m

- The ability to **QUICKLY VERIFY** the threat without mobilizing additional resources (doubt removal).

- Virtually no false alarms

SYLVIACARE's autonomous, connected detectors meet all these requirements by directly processing—on-site—the INFRARED IMAGES captured by their micro-cameras

It is therefore the perfect solution for protecting:
FORESTS • NATURAL AREAS • PUBLIC SPACES
• TOURIST AREAS/SITES • INDUSTRIAL SITES •
CRITICAL INFRASTRUCTURE • HOMES...

Key features:

- ✓ Infrared radiation provides a highly distinctive signature for various heat sources
→ **Drastic reduction in false alarms.**

- ✓ Infrared radiation enables the detection of abnormal heating

- **This allows for intervention in risky situations before a fire actually breaks out.**

- ✓ Infrared images are analyzed locally by the sensor

- **Reduced volume of transmitted and stored data.**

- ✓ The LTE-M1 communication network used by SYLVIACARE simplifies on-site deployment

- **No additional communication infrastructure to install or power.**

- ✓ Onboard cameras enable real-time transmission of on-site images

- **Immediate verification (doubt removal) by "virtually projecting" oneself onto the site.**

- ✓ **Real-time transmission of data such as TEMPERATURE and HUMIDITY levels** to better understand the monitored area and identify high-risk periods.



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This project has received funding from





Prehospital software

DIGITAL PREHOSPITAL REPORTING SOLUTIONS

www.syope.life →

TILDEV specializes in the development of softwares for emergency care practitioners. The company provides emergency services with implements that simplify and optimize response operations.

Syopé is a unified mobile electronic patient care reporting solution designed for all organizations involved in prehospital emergency response. Configurable and customizable, it provides each organization with a tailored application adapted to its needs and working practices. Its features simplify the management and medical coordination of emergency responses. Reports can be completed more efficiently through photo capture, color coding, and automatic recording of vital signs from multi-parameter patient monitors, enabling real-time transmission of clear and comprehensive data.

This technology reduces the required duration for medical coordination by approximately one third.

It also hastens data entry, prevents manual transcription errors, and centralizes data.

As a result, verbal handovers are smoother and clearer, while verbal communication remains part of the process to help minimize errors. To facilitate interoperability, the platform adapts to different professional practices and operational systems.

Syopé also facilitates secure electronic data transmission. The solution relies on HDS-certified hosting infrastructure covered by a SOC4 assurance report. As a SaaS solution, it requires no on-site installation, and maintenance is provided by TILDEV.

To help unify and modernize the alert and operations management systems used by fire and rescue services, TILDEV works with the ANSC and contributes to the development of NexSIS 18-112. Deployed in fire and rescue services using both NexSIS and TILDEV solutions, the system enhances interoperability between public safety and emergency response services as well as facilitating data exchange across the entire emergency response chain. Therefore, cross-agency interoperability is made faster, clearer and more reliable.



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LOCATE TRACK ALERT

WHATEVER THE TERRAIN

PIXYS 3D® • GAMME THESEUS
Position tracking,
from outdoors to underground

TRAAK
Where no one else can

TRAAK



Geolocation & biometric tracking

Keeping track of crew locations, whatever the conditions on scene

Structural fires, wildfires, casualty rescue, search operations, flooding, storms, mountain rescue or industrial incidents: emergency services operate across widely differing environments, often with no infrastructure in place or where conventional technology reaches its limits.

In these situations, knowing where crews and resources are deployed is a core operational capability.

LOCATE. TRACK. ALERT.

TTRAAK develops location technologies that keep positioning data usable outdoors and in complex environments, wherever GNSS alone falls short.

Our **Theseus range** delivers outdoor tracking, relaying position data and alerts even where cellular networks may be down.

Our **PIXYS 3D®** solution locates crews indoors across multiple levels of a building, with continuous positioning as they move between outdoor and complex environments.

These capabilities make it possible to:

- track the real-time position of deployed crews;
- maintain location tracking as crews move between different environments;
- trigger a man-down alert linked to a responder's position in the event of a fall or immobility;
- feed usable situational data through to command, via TRAAK Eyes, CRIMSON or any GIS/C2 system.

Technology built around real operational conditions

Buildings, car parks, tunnels, underground structures, industrial sites, rural areas or open countryside: TRAAK solutions are designed to be trialled against the operational scenarios specific to each service.

Trial it on your ground

Have you identified a situation where your crews lose location tracking, or where your ability to monitor them becomes limited? Tell us about your use case or your operating environment: TRAAK will work with you to build a trial scenario tailored to your needs.



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Computer programming

**Our mission**

Our objective has not changed: to make intelligent and effective monitoring available to all structures, regardless of their financial and human resources, in the service of environmental protection.

Flexible and fast technology to deploy

The Azuria solutions, 100% "made in France," adapt to the constraints of each territory:

- Our frugal IA can be deployed near existing cameras, "on cloud" or in the control center on a simple PC to process in real time the video streams of already installed cameras.
- CamiA , awarded by France 2030, is installed in a few hours at existing high points, thanks to its multi-network connectivity with optional energy autonomy.
- It can also be installed on a drone or on our tethered aerostat Helia, selected by the European project SecurIT, deployable over any open area of 50 m, to identify risks at long distance H24, up to a wind of 60 km/h, without the need for a remote pilot.

Our user application, which allows customers to remotely manage the fleet of cameras and alerts, with integrated statistics, has been co-developed with operators, who access it from any connected object.

Recognized performance in the field

Any AI always ends up detecting smoke, but the question is from what size. Our IA obtained the highest score in an AO that evaluated metrics on field videos, with performances capable of challenging the human eye.

Ask us to test it for free in your territory to validate its effectiveness.

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Prehospital stroke diagnosis

duoverse

Duoverse is a deeptech startup originating from Arts et Métiers and the DesCartes programme at CNRS@CREATE in Singapore.

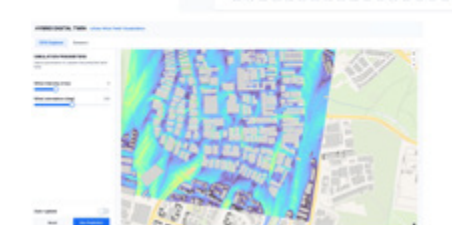
It develops Onetwin, a hybrid digital twin platform combining geospatial data, physics-based models, frugal artificial intelligence, and real-time data to reproduce and predict complex environmental phenomena at high spatial resolution.

The platform currently provides native capabilities for urban wind modelling, thermal microclimate analysis, and atmospheric pollutant dispersion, generating real-time operational maps and indicators through lightweight, compressed, and easily deployable predictive models.

Building on this core technology, Duoverse is progressively expanding its portfolio of application services, including fire risk assessment, flood modelling, telecommunications planning, and other use cases supporting the resilience of territories and critical infrastructure.

Designed for interoperability with leading GIS and digital twin platforms, Onetwin can be integrated through APIs and also enables the export of immersive XR/VR modules for visualization, training, and operational exercises.

The platform supports municipalities, infrastructure operators, emergency services, and industrial organizations in planning, risk assessment, and informed decision-making.



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Digital services



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OPlife is a sovereign digital ecosystem designed by field professionals to **strengthen population protection and extend the effectiveness of command systems** all the way to frontline operations. It connects local authorities, emergency services, security forces, healthcare stakeholders and citizens around useful, shared, traceable and actionable information.

Its differentiation is based on **several patented innovations**: AI applied to multimodal data to improve decision support, service continuity in low-connectivity environments, a proprietary network that can rely on tethered balloon relays and long-range Bluetooth, and secure interoperability through software connectors that transmit only the relevant operational information without exposing sensitive source data.

These technologies support four complementary solutions: **OPmap** for coordinating searches and field teams, **OPpcs** for activating municipal and inter-municipal emergency response plans, **OPlink** for protecting vulnerable people, and **OPalerte** for informing, mobilising and maintaining communications.

Interoperable, secure and hosted in France, OPlife complements existing tools without replacing them. Its DNA: solutions designed by the field, for the field, to preserve data sovereignty and ensure continuity of operations, even in degraded environments.



Wireless connected-device solutions

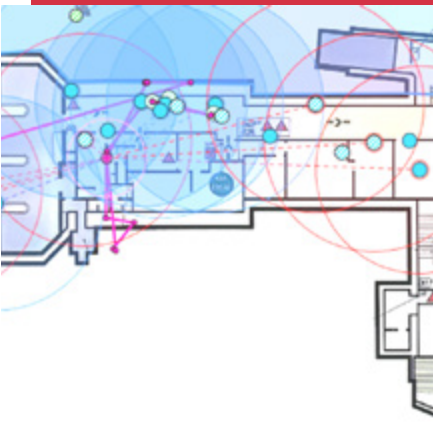


Wizzilab is a French company specialising in Real-Time Location Systems (RTLS) and IoT solutions designed for industrial and critical environments.

With WOLT, its wireless real-time location solution, Wizzilab enables the real-time localisation, tracking and management of assets, equipment, vehicles and people. Location data becomes a genuine source of operational intelligence, helping organisations optimise workflows, improve productivity, enhance safety and support decision-making.

Built on a fully wireless architecture, WOLT combines UWB, BLE and DASH7 technologies to deliver the level of accuracy suited to each use case, while minimising infrastructure costs and simplifying deployment. The platform integrates seamlessly with existing systems (ERP, MES and WMS) through standardised interfaces.

Deployed across sectors such as manufacturing, logistics, healthcare and critical infrastructure, WOLT® supports organisations in their digital transformation by providing reliable, actionable real-time visibility on the ground.



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INSTITUTIONAL PARTNERS



WITH THE SUPPORT OF



ALLIES



FRENCH FIRE & RESCUE SERVICE PARTNERS





Atraksis

www.atraksis.fr

