



SAPHYMO offers a complete range of modern and reliable products as well as the active support of a dynamic, competent and motivated team with over 15 years of experience, research and extensive expertise in state-of-the-art electronic and data processing technologies serving both safety and the environment.





KEY FIGURES

SAPHYMO SA

- Turnover 2004 : 18 M€
- Resources : 115 employees
- ISO 9001-2000 certified

Telematics department

- Year of creation : 1999
- Turnover 2003 : 1,5 M€
- Turnover 2004 : 2,5 M€



SAPHYMO — Business units



➤ Radioactivity measurement

Whether fixed or portable, SAPHYMO equipment is an international reference in the nuclear and defense industry as well as in numerous sectors such as healthcare, the recovery of metals and waste processing.



➤ Telematics

For transport and logistics professionals seeking high performance, security and economy, we propose modular location and real-time monitoring solutions which integrate on-board stand-alone beacons and the associated tracking systems.



➤ Safety and environment

The expertise of this branch includes a wealth of solutions designed to protect and safeguard the environment. KK&K turbomachines, leak detection systems and gas analysis equipment are among the best in the market.



➤ Services

Saphymo is also a team capable of providing efficient installation and equipment maintenance and offering consultancy services and operations on site; the company's size enables swift responsiveness while maintaining the highest standards in terms of quality.



SAPHYMO – Locations

> Saphymo

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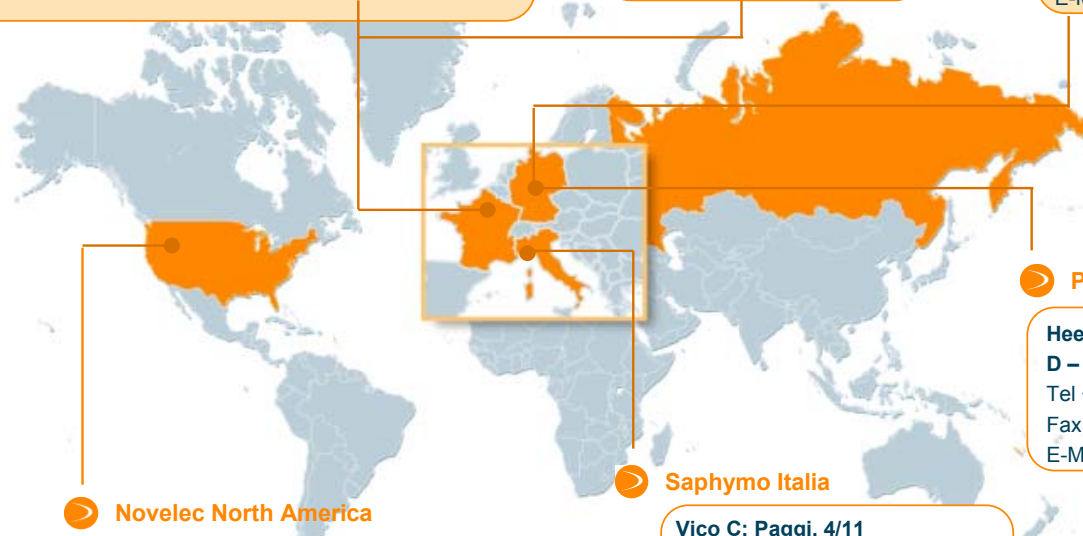
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➤ TELEMATICS DEPARTMENT

With 15 years of experience in the railway market, Saphymo offers innovative fleet management systems for the transport industry. Using the latest electronic and IT technologies, Saphymo is today the market leader in France for embedded tracking and monitoring systems for rail applications with 10 000 wagons fitted with shock measurement recorders and over 6000 GPS/GSM beacons installed on rolling stocks.

Saphymo's Telematics Business Unit designs computer-aided fleet management systems for freight and passenger trains. Saphymo's solutions, based on rapid as well as economic deployment of intelligent and autonomous beacons, provides the operator with real-time and relevant information, thus improving its operating efficiency as well as its profitability.





➤ SAPHYMO' STRENGTH

➤ A trustworthy partner :

- ⌘ Over 15 years of experience in instrumentation and systems for industrial and defense applications.
- ⌘ ISO certified since 1993.

➤ A proven track record :

- ⌘ More than 10 000 units fitted on road and rail vehicles. French leader for railway telematic solutions [low-power applications specialist].

➤ A supply chain under control :

- ⌘ In-house conception, manufacturing and evolutions.

➤ A tailor-made approach :

- ⌘ Modular and evolution-ready hard and software methodology.

➤ Local support & services :

- ⌘ Partnership with Value-Added Resellers





TELEMATICS PRODUCTS & SOLUTIONS



ULYS - W Battery-powered GPS/GSM beacon for the surveillance of wagons



ULYS - W2 Smart battery-powered GPS/GSM beacon for the surveillance of wagons with embedded mission management



ULYS - L Battery-powered GPS/GSM beacon for the surveillance of locomotives with position request possibilities



ULYS - L2 Smart battery-powered GPS/GSM beacon for locomotives and train surveillance



ULYS - Ex Battery-powered explosion-proof GPS/GSM beacon for hazardous goods surveillance



ULYS-Mu Battery-powered GPS/GSM beacon for the surveillance of road vehicles without power supply (trailers, containers, swap trailer, etc.)





TELEMATICS PRODUCTS & SOLUTIONS



MAPI

Software solution adapted for pilots and small vehicle fleets. Data collection system which displays information from ULYS GPS beacons and enables to get quick overview of the transport units' movements via internet.



GAIA*

Scalable web-based communication platform managing data exchanges with Ulys GPS beacons. Designed for seamless integration of transportation alert notification into any fleet management system.

* Geolocalisation, Alert, Information, Analysis





➤ MAIN REFERENCES - TELEMATICS DEPARTMENT

- **SNCF Cargo**
6000 DECA units / 1997 - 2000
Automatic shock recording for ride quality monitoring of freight waggons
- **FRANCE WAGONS**
300 ULYS-W beacons / 2001 - 2002
GPS tracking system of waggons carrying tobacco across Europe
- **SNCF Cargo**
3500 ULYS-L beacons / 2001 – 2003
GPS tracking system for fleet management of freight locomotives
- **SNCF Material and Traction Direction**
SAMI system / 2002
Automatic and centralised system for installation and maintenance of ULYS beacons
- **IRSN**
MAPI system with ULYS-Mu beacons / 2004
GPS information system for tracking radioactivity sources movements
- **SNCF Passenger Regional Trains (TER)**
GPSTrain system / 2004 - 2005
Deployment of a fleet management system for passenger trains with on-board mission management enabling automatic train schedule display on train stations



REFERENCES TELEMATICS DEPARTMENT



FRANCE WAGONS

