

# FRENCH PAVILION ITS WORLD CONGRESS 2018

DENMARK – COPENHAGEN  
17/21 SEPTEMBER  
BELLA CENTER – STAND C2-005



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# BUSINESS FRANCE

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Business France is the national agency supporting the international development of the French economy, responsible for fostering export growth by French businesses, as well as promoting and facilitating international investment in France.

It promotes France's companies, business image and nationwide attractiveness as an investment location, and also runs the V.I.E international internship program.

Business France has 1,500 personnel, both in France and in 64 countries throughout the world, who work with a network of public- and private-sector partners.

For further information, please visit:

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

# FLOOR PLAN



25<sup>TH</sup> ITS WORLD CONGRESS  
**COPENHAGEN**  
17 – 21 SEPTEMBER 2018

*Quality of life*



# ITS FRANCE

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The ITS ecosystem in France is dynamic and rich in its diversity with a diverse range of actors and skills at the crossroads of many sectors: data service providers, automobile industry, infrastructure equipment suppliers, fleet and freight managers, public and private roads network managers.

In France, the market for ITS is generally estimated to be 4.5 billion euros, with more than 1 000 companies providing 45 000 jobs in the private sector in 2015. France historically offers many competitive advantages with world leading players in the field of transport and the high quality of its engineers and public research centres.

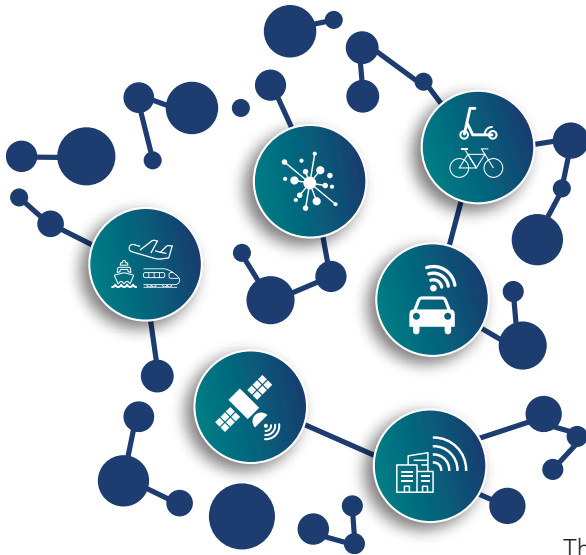
How do the French players deal with the digital trend in the transport sector with ITS solutions? ATEC ITS France has engaged the Mobility 3.0 programme to speed up the process of a huge transformation of the current ecosystem (companies, local authorities, research centre, the Government/Public sector) in order to:

- Develop a 10-year shared vision, as well as a current state of play
- Propose actions and governance to speed up the current business as usual process
- Develop large scale projects and services
- Promote cooperation and visibility at an international level.

The analysis of the French ecosystem was presented in the Green Book put together by ATEC ITS France during the ITS world congress in Bordeaux in 2015. This approach for classifying companies has been defined for 2016 in the national Mobility 3.0 programme run by ATEC ITS with the support of French Ministries (Transport and Economy).

This programme is based on six strategic priorities, with a wide panel of experts for each of them: big data and mobility; connected infrastructures, urban logistic, ITS for low density zones, Multimodal Traffic Management, Mobility as a Service (MaaS).

For each priority there is a presentation of the context, the main opportunities and constraints for the market, and a key for understanding the landscape of companies in the territories and the interactions between them.



The 2016-2026 Mobility 3.0 programme's founding values, cooperation and openness, are thereby adhered to and amplified. It constitutes the main framework for French actors dealing with ITS topics. The results of this dynamic are clear and visible with a contribution to the national consultation in 2017-2018 known as

"Assises de la Mobilité". Some proposals made by this network have been integrated into the draft-bill for a new legislative framework for Transport beginning 2019.

The community of ITS members will be present at major events such as the ITS France pavilion in conjunction with Business France and in the national Congress in Paris in January 2019.

Regarding international development for French companies, over 300 companies specialized in the ITS sector are doing business abroad. Most of them are SMEs and start-ups experiencing export success.

With the emergence of smart cities, the ITS are increasingly spreading around the world. This is an opportunity that French companies are fully making the most of. The French companies are well recognized around the world in the following market segments: Autonomous Vehicles, Carpooling, Carsharing, Transport on Demand, Transport Safety, Assistance Service for Passenger Information and Smart Parking.

Business France prioritizes 13 countries for developing business in 2019 in the Smart Mobility market: Denmark, Canada, Germany, Spain, Finland, Italy, Ivory Coast, Norway, Poland, United States, Sweden and Singapore.

# Mobility as a Service



## Our Business

- › ETC Services provider
- › Customer Center Management
- › Road User Pricing
- › Motorway operation
- › Smart Parking

## Our Services

- › Solution Design & Integration
- › Operation & Maintenance
- › Engineering
- › Project development

### Egis Projects

15, avenue du Centre  
 CS 20536  
 Guyancourt  
 78286 Saint-Quentin-en-Yvelines Cedex  
 Email: [contact.egis-projects@egis.fr](mailto:contact.egis-projects@egis.fr)



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# STRASBOURG, UN TERRITOIRE LEADER A LEADING TERRITORY



© I 2x6th

  
25<sup>th</sup> ITS WORLD CONGRESS  
**COPENHAGEN**  
17 - 21 SEPTEMBER 2018  
**BOOTH**  
**C2 - 005**

**MOVING TOWARDS  
TOMORROW**



**STRASBOURG - FRANCE**

## CONTACT US

-  **KRIEGER Hervé**  
Innovative mobility manager  
[herv.krieger@strasbourg.eu](mailto:herv.krieger@strasbourg.eu)
-  **KRIEGER Delphine**  
Innovation & international strategy manager  
[delphine.krieger@strasbourg.eu](mailto:delphine.krieger@strasbourg.eu)

Strasbourg  
**the eurooptimist**  
[www.strasbourg.eu](http://www.strasbourg.eu)



# GNSS SOLUTIONS FOR



PUBLIC  
TRANSPORTATION



AERONAUTICS



SPACE



IoT



AUTOMOTIVE



Toulouse, France  
New-York, USA

3

years of existence

15

years of R&D

We are an **Engineering-driven Solution designer** for **Location Technologies**, offering unique and innovative solutions for **GNSS data processing**. Our core competence is advanced **Software based Location and Navigation Systems**.

Research and Development is our land, Customers' imagination & needs are our fertilizer. We like nothing more than a customer challenge where we can stretch our capabilities one step further.

Our ambition is to serve the market with the most pertinent technologies, products and services being **Agile and Creative**.



@SYNTONY\_GNSS



Aerial view of a city and park on a globe, set against a starry space background. The globe shows a city with skyscrapers on the right, a large green park in the center, and a beach with blue water on the left. A bright sun or moon is visible in the upper right corner of the space background.

The people we all rely on  
to make the world go round,  
they rely on Thales

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# ATEC ITS FRANCE

**ATEC ITS FRANCE**

## ATEC ITS FRANCE

### Guillaume FARNY

General Delegate

Ph.: +33 (0)1 45 24 71 02

[guillaume.farny@atec-itsfrance.net](mailto:guillaume.farny@atec-itsfrance.net)

ATEC ITS France has been for 45 years the main network of actors dealing with Intelligent Transport issues with more than 150 entities. It enables private and public actors from a wide range of sectors to be more visible and well informed of the latest innovations.

For 3 years, ATEC ITS France runs the French national strategy "Mobility 3.0" with a strong focus on following subjects: big data and mobility; ITS for low density zone; urban logistic; connected infrastructures; Multimodal traffic management; Multimodal ticketing and information services (MaaS).

ATEC ITS France organizes each year the main national congress with more than 1500 participants. The next one is on 23<sup>th</sup> and 24<sup>th</sup> January 2019 in Paris with a focus on « Networks ».





**BMIA**

**Philippe MARSAUD**

Directeur des Projets

Ph.: +33 (0)5 56 39 69 54

Cel.: +33 (0)6 07 24 51 28

philippe.marsaud@bmia.fr

Since 2009, BMIA designs and distributes software solutions dedicated to the professionals of infrastructures, smart mobility, water treatment and energy (Egis, Lebanon American University, Ansaldo, Bouygues, Suez, GRDF...):

- INTERACTIVE AND SETTABLE 3D SIMULATOR OF TRANSPORTS INFRASTRUCTURES
- MULTI-POST AND MULTIMODAL ECO-DRIVING SIMULATOR
- COMPUTER ASSISTANCE FOR OPERATION AND MAINTENANCE
- OPERATION DATA LOG SOFTWARE

BMIA also provides its technical expertise with high quality service and innovation in order to meet the needs of its customers, specially to optimize the process during the various stages of industrial computing projects.



# CAPITAL HIGH TECH



CAPITAL HIGH TECH SARL

Florence GHIRON

CEO

Ph.: +33 (0)5 56 12 61 29

Ph.: +33 (0)6 73 44 35 75

fghiron@chtech.fr

Capital High Tech is a private innovation consulting company specialized in Intelligent Transport Systems.

We offer:

- Engineering of innovative collaborative ITS projects
- Economy of Data for innovative Business models development
- Support to economic development and market replication with a special focus on SME and start-up support
- Analysis of users' needs and Key Customers' Values
- How Regulatory issues impact market development



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

- ITS Business models and regulatory issues

# EGIS

Egis is an international group subsidiary of "Caisse des Dépôts" provides engineering, project structuring and operations services.

Employing 13,600 people, the Group generated a managed turnover of €1.050 billion in 2018.

20 years of experience in the operation and management of toll operating companies worldwide, Egis has expanded its core business activities into Heavy Goods Vehicles (HGV) tolling and telematics services, Electronic Toll Collection services, road safety solutions, and Smart Parking solution.



## EGIS PROJECTS

**Pascal LEMONNIER**

Business Development Director

Ph.: +33 (0)1 39 41 51 60

Cel.: +33 (0)6 19 63 06 18

pascal.lemonnier@egis.fr



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

- Engineering, operation and mobility solution

# FARECO



## FARECO

### Philippe LECLERC

Directeur Ventes et Marketing

Ph.: +33 (0)1 55 66 22 52

Cel.: +33 (0)6 15 45 81 44

p.leclerc@fareco.fayat.com

Pioneer in the development of intelligent traffic controllers and ITS solutions for public transport, Fareco is known as one of the leaders in traffic solutions in Europe. To respond to the changing needs in urban mobility and the development of "smart" cities, Fareco has diversified and proposes a complete offer:

- Traffic equipment (static and dynamic)
- Traffic data collection (urban and road applications)
- Integrated V2X solutions for connected and autonomous cars (C-ITS)
- Automatized speed enforcement equipment (onboard radars)
- Toll and access control systems
- Connected street lighting

Fareco's large network of commercial and technical experts provide assistance in France (head office) and Portugal (subsidiary), as well as in various export countries in Europe and Africa.



[www.fareco-fayat.com](http://www.fareco-fayat.com)

- Traffic management, tolling, onboard radars, V2X

# FDC



FDC

**Christophe TAILLANDIER**

Business Development  
Ph.: +33 (0)1 53 66 11 11  
Cel.: +33 (0)6 62 36 78 70  
[christophe.taillandier@fdc.eu](mailto:christophe.taillandier@fdc.eu)

**Alexandre ALLIEN**

Chief Technical Officer  
Ph.: +33 (0)1 53 66 11 11  
Cel.: +33 (0)6 07 21 36 71  
[alexandre.allien@fdc.eu](mailto:alexandre.allien@fdc.eu)

Independent research, engineering and consultancy organization, FDC has been offering a unique blend of expertise in Satellite Navigation and Security for almost 30 years.

FDC has a unique knowledge in implementing innovative robust and resilient navigation technology for smart mobility. In particular, to respond to the emergence of new threats on satellite navigation, FDC has developed a secure GNSS receiver that can detect spoofing attacks, mitigate jamming impact and ensure end-to-end security for critical ITS applications.

At the ITS World Congress 2018, FDC will showcase its secure GNSS module for ITS which is the result of several years of collaboration with STMicroelectronics, Novacom Services and Navcert (FOSTER-ITS project).





# GEOSAT



## GEOSAT

**Marc ETCHEVERRY**

Business Development Manager

Ph.: +33 (0)5 56 78 14 33

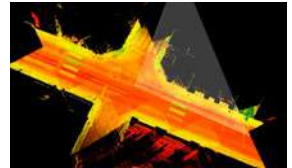
Cel.: +33 (0)6 99 87 32 42

m.etcheverry@geo-sat.com

GEOSAT is a company specialized in all areas related to 3D and 4D measurement. Since its creation in 2000, GEOSAT has been a company driven by innovation. It was the first french company which used GPS receivers for its ground surveys. GEOSAT was also the first company using LIDAR for topographical survey.

Mobile Mapping System (MMS) is a very powerful technology allowing the acquisition of 3D data on a very large scale. It combines high-precision LiDAR sensors for data collection with GPS and Inertial Measurement Units (IMU). Its very varied applications make it possible to realize 3D models of cities or to map roads.

Using the raw data point cloud data, GEOSAT aims to generate highly accurate and secure HD Maps.





## IDNOMIC

### Axel SANDOT

Business Development Manager

Ph.: +33 (0)1 44 42 00 18

Cel.: +33 (0)7 86 58 00 05

[axel.sandot@idnomic.com](mailto:axel.sandot@idnomic.com)

IDNOMIC is the leading provider of trust services for the protection of digital identities for employees, connected devices and citizens. In the automotive industry, IDnomic developed a dedicated PKI (Public Key Infrastructure) for the Cooperative Intelligent Transport Systems (C-ITS), also called Security Credential Management System (SCMS).

Through its participation in various European pilot and scientific research projects, it demonstrated its know-how in securely exchanging information between vehicles or between vehicles and the road infrastructure. With this solution, all ITS stations can verify the integrity and authenticity of the messages, preventing any malicious modification and controlling the credentials of every station who tries to send or receive messages.



# IFSTTAR

IFSTTAR's role is to carry out and commission, direct, lead and appraise research, development and innovation in the areas of urban engineering, civil engineering, and construction materials, natural hazards, the transportation of persons and goods, systems and means of transport and their safety, infrastructure, and investigate their uses and impacts from the technical, economic, social, health, energy, environmental and human points of view.



**THE FRENCH INSTITUTE OF  
SCIENCE AND TECHNOLOGY  
FOR TRANSPORT,  
DEVELOPEMENT AND  
NETWORKS**

**Emilie VIDAL**

Communication Officer

Ph.: +33 (0)1 81 66 82 15

Cel.: +33 (0)6 19 71 21 95

[emilie.vidal@ifsttar.fr](mailto:emilie.vidal@ifsttar.fr)



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

• Research Institute

# IIDRE

# IIDRE

IIDRE is specialized in geolocation systems with or without satellite coverage. Thanks to its deep knowledge of sensor networks and wireless technologies, such as UWB and RFID, IIDRE offers geolocation solutions for goods and people in complex environments, for applications in the construction, logistics, automotive, industrial sectors and security especially.

IIDRE offers innovative solutions to its customers by accompanying them throughout their projects, from the phase of definition of technical and functional specifications, through the realization of functional prototypes (hardware and embedded software), quickly tested during POC (Proof Of Concept) and until delivery of deployable equipment under operational conditions.

**IIDRE**

**Michel SEYRAC**

Directeur

Ph.: +33 (0)9 72 27 88 73

Cel.: +33 (0)6 11 29 31 33

mseyrac@iidre.com



# LACROIX CITY



## LACROIX CITY

### Pascal CONTE

Business Development Executive  
Ph.: +33 (0)2 40 92 37 30  
p.conte@lacroix-city.com

### Johan GACHON

Technology Marketing Director  
Ph.: +33 (0)4 92 08 43 00  
j.gachon@lacroix-city.com

LACROIX CITY is one of the french leader in equipments for urban mobility and smart road usage. We design, manufacture and supply equipments in France and abroad.

Our vision: to ensure that streets and roads are shared by all, so that our regions are appealing, collaborative, safe, communicative & connected.

Our mission: to direct, optimize and increase the safety of pedestrian and traffic flows.

Our equipment combines the latest technological innovations and our professional expertise. It helps create open and interoperable ecosystems for the cities of tomorrow.

LACROIX City offers a wide range of innovative and technological equipments for:

- Road signage and urban planning
- Urban and interurban traffic management
- Street lighting management
- V2x for connected or autonomous mobility



# LOGMA CONSULTING

## LOGMA Consulting

LOGMA

François MALBRUNOT

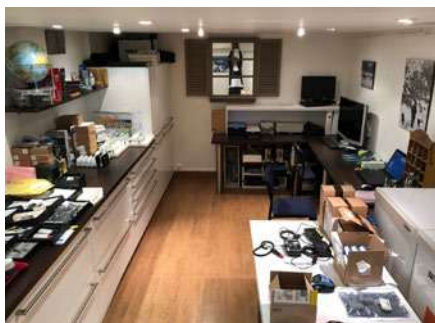
Managing Director

Ph.: +33 (0)1 30 83 97 76

Cel.: +33 (0)6 09 44 00 31

logma.malbrunot@logma.fr

Consulting, since 1995, in Equipment and Systems for transportation infrastructures and vehicles. Intelligent Transport Systems and Services: road and parking Tolling, Electronic Toll Collection Interoperability (Europe, North America), Industrial automation, Safety and Security, Automation of Airport baggage handling systems. Expertise in standardization (CEN, ISO) and technologies DSRC, GNSS, CN, Video, telecommunications. Smart City and Lighting. Simulation and Modelisation.



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

• Consulting Equipment & Systems for Mobility

# MOBILITY BY COLAS



COLAS

Fabrice LURIOT

Director

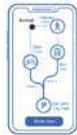
Ph.: +33 (0)1 47 61 73 39

Cel.: +33 (0)6 79 47 34 93

fabrice.luriot@colas.com

Via its new business unit Mobility by Colas, an activator of digital mobility services, Colas is developing solutions based on digital technologies and the use of data, around 3 main cornerstones:

- Mobility as a Service with Moov'Hub, a digital service platform that offers a single interface for users and a mobility observatory for private and public clients,
- Road asset management system with Anaïs, a digital solution providing continuous preventive service to detect and manage road safety risk area,
- Optimizing mobility around urban construction sites, using an engineering approach and an integrated digital platform Via'Muse.



## MOOV'HUB

Mobility-as-a-Service solution (MAAS)

Digital platform that provides mobility services through a single interface for users and an observatory for public and private clients



## VIA'MUSE

Mobility around urban construction sites

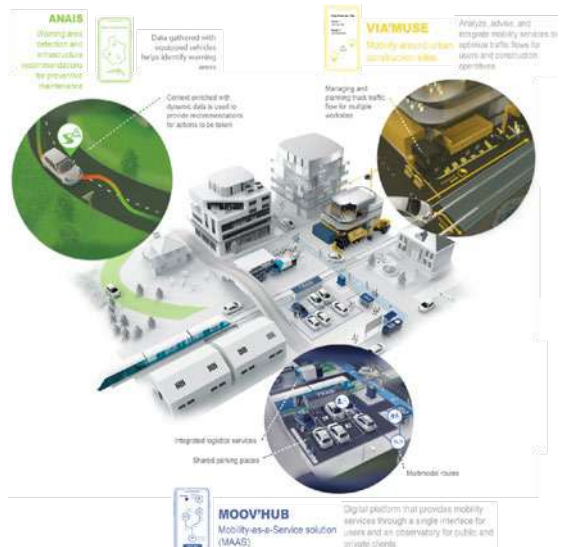
Analyze, advise, and integrate mobility services to optimize traffic flows for users and construction operatives



## ANAIS

Warning area detection and infrastructure recommendations for preventive maintenance

Data gathered with equipped vehicles helps identify warning areas



# PADAM

PADAM provides a SaaS, turnkey solution to public operators and cities to develop optimized on-demand services. Padam end-to-end digital solution allows corporate customers to simulate and operate optimized on demand road services. The solution relies on algorithms and data analysis for optimisation, and includes user and driver apps and back office for operators. Padam sells its technology through two products, Padam Lab for simulations and Padam Live for operations.



Padam Live is already operated by RATPdev in Bristol (UK) ([www.slidebristol.com](http://www.slidebristol.com)), Transdev in the Paris Region (FR) ([www.gallymauldre-flexigo.fr](http://www.gallymauldre-flexigo.fr)), Keolis in Orléans (FR), and numerous other transit agencies and transport operators across the world.

## PADAM

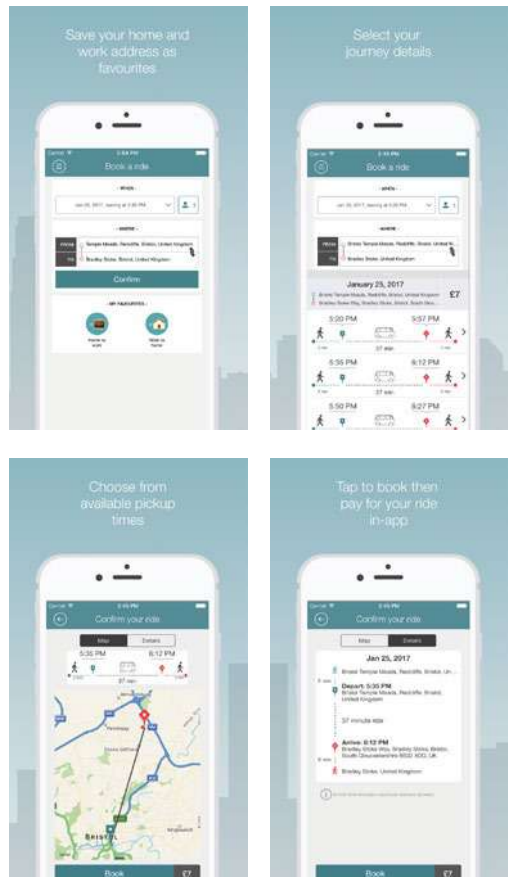
**Xavier BOUREAU**

VP Business Development

Ph.: +33 (0)9 83 23 04 00

Cel.: +33 (0)6 67 40 44 27

[xavier@padam.io](mailto:xavier@padam.io)



[www.padam.io](http://www.padam.io)

- Software for on-demand transport



# PRAGMA INDUSTRIES



## PRAGMA INDUSTRIES

### Christophe BRUNIAU

Sales Manager

Ph.: +33 (0)5 59 51 27 55

Cel.: +33 (0)6 82 30 20 70

christophe.bruniau@pragma-industries.com

PRAGMA INDUSTRIES is a worldwide-recognized hydrogen fuel cell expert company. Turning the hydrogen economy into a reality, we develop compact cost-effective fuel cells for portable power and mobility applications. Our latest innovation, the fuel cell-powered electric bike, is designed to radically change the game of pollution-free individual mobility experience.

Pragma Industries develops and produces state-of-the-art fuel cells and hydrogen power systems for its customers worldwide. Additionally, the company has developed a fully certified commercial-grade fuel cell eBike with corresponding H2 charging stations. This innovative mobility solution is now on the market in France and available for exportation. The bike boasts 100km range with just one-minute charging time.



# SETEC ITS

setec its is a subsidiary of the setec group, one of the largest private French design offices.

setec its specializes in intelligent transport systems, mobility engineering and urban transports design.

setec its develops a global approach to mobility and transports, which aims to improve the efficiency of transportation networks and services for travellers.



SETEC ITS

Eric PERARD  
CEO

Ph.: +33 (0)1 82 51 57 12  
eric.perard@its.setec.fr



Crédits : DR

# STRASBOURG EUROMETROPOLE



## STRASBOURG EUROMETROPOLE

### Hervé KRIEGER

Innovative Mobility Manager  
Ph.: +33 (0)3 68 98 65 68  
herve.krieger@strasbourg.eu

### Delphine KRIEGER

Innovation and International  
Business Strategy Manager  
Project Manager KIC Urban Mobility  
Ph.: +33 (0)6 38 89 43 73  
delphine.krieger@strasbourg.eu

[www.strasbourg.eu/  
mobilites-innovantes](http://www.strasbourg.eu/mobilites-innovantes)

Strasbourg's ambition is to become one of the reference metropolis in Europe for innovation in urban mobility, urban and inland port logistics and multimodal transports (road, river, rail).

By boosting innovation Strasbourg aims:

- to develop the existing economic fabric in mobility (clusters, companies, startups, innovation centres, research centres and higher education)
- to answer issues of quality of life and of development of the mobility aspect of Smart Cities

The support to innovation is lead by the digital economy, technology and data from space economy, and a living lab culture.

ITS solutions are spotted as one of the field of expertise to strenghten in this innovation strategy.

Come to join us !



- European Urban Mobility Hub

# SYNTONY GNSS



## SYNTONY GNSS

**François GOUDENOVE**

Chief Sales Officer

Ph.: +33 (0)5 81 319 919

francois.goudenove@syntony-  
gnss.com

Syntony is the only provider world-wide, who has solved the following problem: making GPS work underground. This unique solution has a name: SubWave.

SubWave extends the GPS signal environment underground: Subway stations, subway and train tunnels, road tunnels and underground parking.

SubWave allows mainly two types of services:

### Safety of life:

- Continuous tracking of metro agents as well as security forces (police, firemen...) thanks to their PMR or Tetra receiver.
- Localization of 100% of emergency calls sent by user's smartphones.
- No specific application needed on the smartphone to be located: it works simply with the standard OS and GPS chipset, even with old smartphones.
- Seamless transition from outside to underground: there is no service interruption when the user comes down into the underground part of metro.

### Navigation:

- High precision positioning feature allowing the guidance of passengers
- Support fully multi modal transport application developed in the frame of "Smart City Project".
- Precise Vehicle positioning inside the tunnels or underground parkings, even with Waze
- "Find your parking place" application, even underground.

### About SYNTONY:

Syntony is a French Tech company, with offices in France and USA, specialised in the design and manufacturing of radio navigation, radiofrequency and electronics systems.



[www.syntony-gnss.com](http://www.syntony-gnss.com)

- Innovative solutions for GNSS data processing

# TOPOS - DIGITAL AQUITAINE



TOPOS is a French regional cluster of 50 members with a unique expertise on satellite navigation, high integrity positioning solutions and connectivity services for intelligent transport systems.

TOPOS hosted the 2015 ITS World Congress in Bordeaux & is managing ITS4Climate, the international initiative promoting the use of ITS to work towards a low-carbon and resilient world.

TOPOS is part of Digital Aquitaine, the cluster dedicated to digital technologies in the South West of France.

## TOPOS - DIGITAL AQUITAINE

**Camille COSTE**

Project Manager

Ph.: +33 (0)5 47 48 13 93

Cel.: +33 (0)6 49 95 99 72

ccoste@digital-aquitaine.com



# WIZWAY SOLUTIONS



## WIZWAY SOLUTIONS

### Audrey DELAVARENNE

Marketing manager

Ph.: +33 (0)1 45 22 58 79

[audrey.delavarenne@wizway.fr](mailto:audrey.delavarenne@wizway.fr)

### Louis BROSSÉ

CEO

Ph.: +33 (0)1 45 22 58 79

[louis.brosse@wizway.fr](mailto:louis.brosse@wizway.fr)

WIZWAY SOLUTIONS offers Transport Operators a secure way to digitalise their complete range of fares on a Smartphone. This NFC based solution has the advantage of being compatible with existing contactless validation systems and can be easily and rapidly integrated into the mobile applications of transport operators.

The passenger's journey becomes a 100% digital experience: search, purchase, validation and control. Tickets are stored in a secure space and are recognised by a simple swipe on a ticket reader even when the Smartphone is switched off or out of battery.

In use in Strasbourg since 2017, Wizway's solution has also been chosen by the Paris Region, the city of Lille and SNCF (French National Railways) for their door to door mobility app.





## YOGOKO

**Thierry ERNST**

CEO

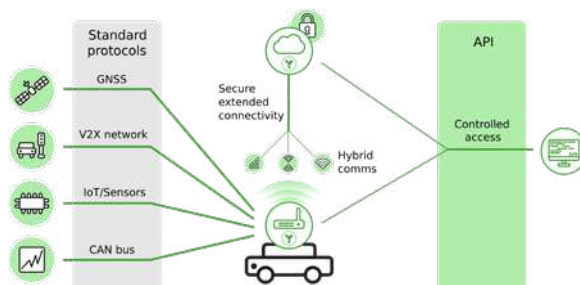
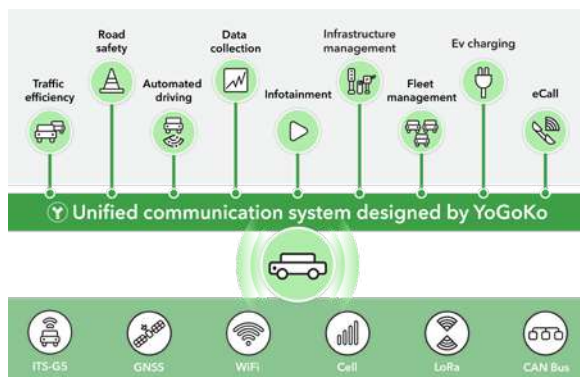
Ph.: +33 (0)6 76 56 25 96

thierry.ernst@yogoko.com

Addressing the needs of connected & cooperative mobility, YOGOKO developed Y-SMART, a unified software platform combining hybrid communication technologies (ITS-G5, WiFi, cellular, LoRA,...).

Y-SMART allows vehicles to exchange data directly with their surrounding environment (V2X communications between vehicles and roadside infrastructure, sensor, nomadic devices, ...) while offering extended & secure connectivity to the cloud (control centers, service providers, ...). Y-SMART is integrated into various hardware platforms fitting to the appropriate deployment environments.

YoGoKo solutions are primarily used in pilot deployments of Cooperative ITS services (e.g. road maintenance vehicles involved in SCOOP@F, the French pilot) and in connected autonomous vehicle programs.





# FRENCH PAVILION

## ITS WORLD CONGRESS 2018

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*The French Pavilion is organized by Business France, the national agency supporting the international development of the French economy.*

**Contact in France - Business France head office**  
77 boulevard Saint-Jacques  
75014 PARIS

**Isabelle DUVAL**, Project Manager  
Ph.: +33 (0)1 40 73 33 31  
[isabelle.duval@businessfrance.fr](mailto:isabelle.duval@businessfrance.fr)

---

**Contact in Denmark - Business France office**

**Brigitte MARCEL**, Senior Trade Advisor  
Industry & Cleantech  
Ph.: +45 33 37 61 79  
[brigitte.marcel@businessfrance.fr](mailto:brigitte.marcel@businessfrance.fr)

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**Contact in Finland - Business France office**

**Vincent JOLY**, Senior Trade Advisor  
Coordinator for the Nordic Countries  
Industry & Cleantech  
Ph.: +358 50 54 36 809  
[vincent.joly@businessfrance.fr](mailto:vincent.joly@businessfrance.fr)

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

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