

# French solutions for air safety



[www.proavia.com](http://www.proavia.com)



# Who is PROAVIA ?



PROAVIA is the French trade association of airport and air traffic control equipment manufacturers and consultants.

It was created in 1976 as a joint initiative of the French Civil Aviation Authority and French industry and is registered as a not-for-profit organisation under French law.

It currently has 60 member companies listed and is managed by an elected board and two full time delegates under the umbrella of the French Civil Aviation Authority.

It is the Information Gate for anyone seeking to source in France a supplier of goods, services or expertise for airport terminal as well as for ATC or ramp and maintenance.

## > OUR MISSION

- Promotion of the French industry worldwide.
- Building relations with Airports & Civil Aviation Authorities.
- Identification of international projects and partners.
- Collaboration and information sharing.

## > ADDED VALUE FOR YOU

- Provide information and assist you to source a supplier of goods, services or expertise in France.
- Arrange your contacts and meetings with French partners, French Civil Aviation or French airports...



Air traffic control is an essential link in the air transport value chain alongside airlines, airports, research centers, specialized schools and the civil aviation industry.

Playing a major role in European research programs such as the Single European Sky and within the technical committees of ICAO, France has historically enjoyed a prestigious place in the field of civil aviation.

With a network of dynamic airports, both in mainland France and in its overseas territories, and with innovative companies, our country has achieved a high level of technology in air traffic control, helping to manage strong national and international air traffic growth.

To ensure the safety of 3 million flights a year in French skies, companies in our sector invest massively in research and development in order to provide innovative solutions to facilitate the safe movement of as many aircraft as possible in a given airspace.

In our field, performance is judged based on the punctuality of flights but also on the reduction of the environmental footprint of air traffic.

From control centers on the end of runways to aircraft stations to ceilometers, from the optimization of flight trajectories to the reduction of pollution on the ground, French solution providers are ready to take up the challenges of tomorrow by offering the best of French technology.

PROAVIA, the Association for the Promotion of French Airport Technologies and Aviation Safety is pleased to share with you the know-how of its members in its new brochure: French technological solutions for aviation safety ■

# Companies & products' index

In the A-Z index you will find the PROAVIA member companies whose activities match your needs.

## ✈ ADB SAFEGATE

- A-CDM
- Airfield lighting
- Airfield Operations
- ASMGCS
- Docking systems
- Flight Data Processing Systems
- Integrated Control Room Solutions
- Remote Maintenance Monitoring
- Runway inspection
- Training Centers/Courses
- ATC and Apron traffic solutions

## ✈ ADP Ingénierie

- ATC Tower Design
- Engineering Services
- Environmental Consulting
- Safety Systems/Risk Assessment
- Technical assistance to Civil Aviation authorities
- Training Centers/Courses
- BIM
- Airport Safety

## ✈ ALPHA-AIRPORT

- Airfield Lighting
- Control systems
- Mobile ATC tower
- Design
- Installation

## ✈ ALPHA-CIM

- ASMGCS
- Cyber Security consultancy
- Data Networks
- Display Systems
- Integrated Control Room Solutions
- Photometric calibration
- Remote Maintenance Monitoring
- Runway Surveillance Systems

## ✈ ALTYS Technologies

- A-CDM
- AI/AR (Artificial Intelligence/Augmented Reality)
- Airfield Communications
- Airfield Operations
- ASMGCS
- Communications - Data-Link
- Flight Tracking
- FOD detection
- MLAT/WAM
- Runway Surveillance Systems
- Neural Networks, Blockchain

## ✈ BODET Time&Sport

- Data Networks
- NTP/PTP Time Servers
- Clock system

## ✈ CODRA

- Aeronautical Information Systems (AIS)
- Remote Maintenance Monitoring
- SCADA
- Data Analytics

## ✈ CS Group

- ATC Towers/Mobile Control Towers
- Communications - Data-Link
- Drone/UAV technology
- Integrated Control Room Solutions
- integration of drones within airspace
- Simulators
- Training Centers/Courses
- VCCS - VRS
- Counter-drone (C-UAS) solution
- Cyber security range of solutions

## ✈ DEGREANE HORIZON

- Aeronautical Information Systems (AIS)
- ATIS / VOLMET
- Data Networks
- Meteorological Systems
- Remote Maintenance Monitoring
- Detection of horizontal wind shear

## ✈ EGIS

- Air navigation operational consultancy services
- Airfield Operations
- Airspace Design
- Cyber Security consultancy
- Engineering Services
- Environmental Consulting
- integration of drones within airspace
- PBN
- Satellite Navigation Systems
- Technical assistance to Civil Aviation authorities

## ✈ EJ

- Airfield Operations
- Safe and easy access to the underground networks

## ✈ ENGIE Solutions

- Airfield Communications
- Airfield lighting
- ATC Towers/Mobile Control Towers
- ATIS / VOLMET
- Communications - Data-Link
- Data Networks
- Display Systems
- Ground - Ground ATC Data Networks
- Integrated Control Room Solutions
- Integrated Telephone Systems/Services
- Remote Maintenance Monitoring
- Remote Towers
- Telephonic Systems
- Training Centers/Courses
- VCCS - VRS
- VSAT

## ✈ SAFETY LINE

- Runway inspection
- Safety Systems/Risk Assessment

## ✈ SETEC INTERNATIONAL

- Airfield lighting
- Airfield Operations
- Airspace Design
- ATC Tower Design
- Drone/UAV technology
- Engineering Services
- integration of drones within airspace
- VTOL / Vertiport

## ✈ ENVISA

- Environmental Consulting
- Noise Monitoring
- PBN
- Real-time & historical noise & emissions reporting
- Training Centers/Courses
- Life Cycle Assessment
- Stakeholder Engagement (Noise, and Local Air Quality)

## ✈ TELERAD

- Airfield Communications
- Antenna
- ATC Towers/Mobile Control Towers
- Communications - Data-Link
- Ground - Based Navigational Aids
- Navigation Aids
- Remote Maintenance Monitoring
- Remote Towers
- UHF VHF
- VCCS VCCS - VRS
- VSAT
- Maritime radios
- VoIP converter
- RCMS (Remote Control & Monitoring System)

## ✈ France Aviation Civile Services

- A-CDM
- Aeronautical Information Systems (AIS)
- Air navigation operational consultancy services
- Airfield Operations
- Airspace Design
- Automated detection of safety events
- Bird control
- Environmental Consulting
- FOD detection
- integration of drones within airspace
- Navigation Aids CALIBRATION
- PBN
- Safety Systems/Risk Assessment
- SWIM
- Technical assistance to Civil Aviation authorities
- AFIS
- Airspace Design

## ✈ THALES Airspace Mobility Solutions

- Aeronautical Information Systems (AIS)
- AI/AR  
(Artificial Intelligence/Augmented Reality)
- Air navigation operational consultancy services
- AMHS systems
- ASMGCS
- ATC Tower Design
- ATC Towers/Mobile Control Towers
- Communications - Data-Link
- Cyber Security consultancy
- Data Networks
- Drone/UAV technology
- Flight Data Processing Systems
- Ground - Based Navigational Aids
- Ground - Ground ATC Data Networks
- integration of drones within airspace
- MLAT/WAM
- Navigation Aids
- Remote Towers
- Satellite Navigation Systems
- Surface Movement Radar
- Surveillance Systems (including Radar)
- SWIM
- Training Centers/Courses
- Wide Area Multilateration (WAM)
- Digitalization of ATM

## ✈ GORGY TIMING

- Display Systems
- High-precision time synchronization systems

## ✈ Innov'ATM

- A-CDM
- AI/AR (Artificial Intelligence/Augmented Reality)
- Drone/UAV technology
- Ground - Based Navigational Aids
- integration of drones within airspace
- Surveillance Systems (including Radar)

## > CONTACT

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## ADB SAFEGATE

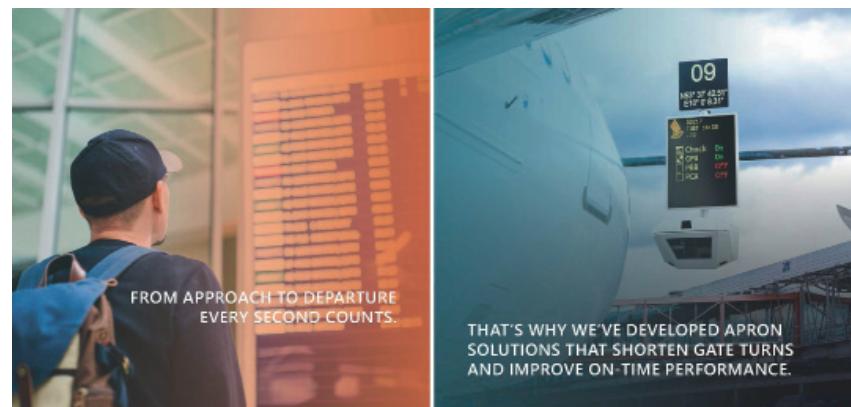
ADB SAFEGATE provides integrated solutions that increase efficiency, improve safety, boost environmental sustainability and reduce operational costs for airports, airlines and Air Navigation Service Providers. The company works with airports and airlines to solve operational bottlenecks from approach to departure.

## > PRODUCTS & SERVICES

Solutions encompass airfield lighting, tower-based traffic control systems, intelligent docking automation and services, as well as advanced IT and analytics delivering industry-leading Total Airport Management.

## > MAIN REFERENCES

ADB SAFEGATE serves more than 2,500 airports in more than 175 countries, from the busiest and largest like • John F. Kennedy • Atlanta • Beijing • Dubai • Heathrow • Charles De Gaulle • Frankfurt • Istanbul • New Delhi and • Changi to fast-growing airports across Asia and Africa.



The complex choreography of the apron is only seamless when all stakeholders and all systems work together as one. That's why we help airports and airlines to integrate our Safedock A-VDGS and apron management solution with flight information and other systems. Then, they get a real-time view of all activity – from aircraft docking to departure. Integration and automation enhances safety, boosts efficiency and delivers a more predictable and faster aircraft turnaround.

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## ADP Ingénierie

ADP Ingénierie, an ADP company, is a French firm that designs airports or develops existing ones. Our experts support projects from the initial design to operation, combining multiple skills from engineering and consulting to architecture in a 360 ° approach to the life cycle of the airport.

We build long-term partnerships, close to our clients. Our team is composed of nearly 420 employees of 47 nationalities working in 20 countries on more than 150 ongoing projects.

ADP Ingénierie supports all stakeholders in airport management throughout the airport life cycle, from planning to operations.

## > PRODUCTS & SERVICES

Being a leader in airport infrastructure development, ADP Ingénierie provides Airports and ANSPs with engineering services in all CNS/ATM fields:

- control towers design
- design of runways/taxiways/Apron
- airside system and facility design (AGL, Navaids, MET)
- airside/APP/en route simulations
- design of remote control towers
- airspace design
- environment and sustainability surveys
- A-CDM implementation.

## > MAIN REFERENCES

- **Beijing-Daxing International Airport**  
*Schematic architectural design*
- **Bahrain-Manama International Airport** *Rehabilitation of parking areas, supervision of extension works, design of the air traffic control center, new baggage sorting system*
- **John Fitzgerald Kennedy International Airport**  
*Strategic Planning and Design*
- **Addis Ababa International Airport**  
*Supervision of airport construction sites and terminal design review*
- **Sharjah International Airport**  
*Architectural design and supervision of works related to the airport expansion*
- **Taipei – Taoyuan International Airport** *design and assistance in supervising the work for the new control tower*
- **Mauritius - Sir Seewoosagur Ramgoolam International Airport** *Design and supervision of the control tower and associated technical block*

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## ALPHA-AIRPORT

ALPHA-AIRPORT provides a complete technical solution to your needs. Our range of services encompasses all necessary steps throughout the project management process, from its design to its implementation: technical studies, supplies, logistics, installation and supervision, set-up, training as well as After Sale Support. ALPHA-AIRPORT is able to design and commission complete airport systems in all our skill scope.

## > PRODUCTS & SERVICES

A full range of products in absolute compliance with current standards (ICAO, FAA, IEC, STAC, CAP168 et STANAG)

- Runway and taxiway, Approach, Heliport airfield lighting
- Constant Current Regulator (CCR)
- Transformer, cable and connection
- Panels, Windsocks and markers
- Control Systems
- Obstruction lights
- Mobile Control Tower
- Mobile airfield lighting solutions

## > MAIN REFERENCES

- **France :**  
Lyon, Brest, Nantes, Perpignan, Saint-Etienne, Auxerre, Bastia, Limoges, Pointe à pitre, Cayenne, Nouméa as well as French airforce bases.
- **Belgium :**  
Brussels and Charleroi airports as well as several Belgian airforce bases.
- **Northern Africa :**  
Casablanca, Agadir, Tanger, Essaouira, Marrakech, Al-Hoceima, Gabes, and several Algerian airforce bases.
- **Subsaharan Africa :**  
Bamako, Cotonou, Dakar, Cap-Skiring, Tambacounda, Yamoussoukro, Abidjan, San Pedro, Daloa, Libreville, Maradi, Zinder, Douala, Djibouti, Abeché, Kinshasa
- **Caribbean :**  
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# ALPHA-CIM

**LEADER IN AUTOMATION SYSTEMS INTEGRATION  
& INDUSTRIAL IT**

Always attentive to your needs, ALPHA-CIM offers innovative and turnkey solutions including low-voltage electrical engineering, IT networks and cyber-security, industrial automation and SCADA systems.

To meet our clients' needs we also manage peripherals and provide complementary services such as 24/7 third-party maintenance, user training, consultancy and audits.

## > PRODUCTS & SERVICES

ALPHA-CIM offers a large range of high added value solutions for airports addressing these areas:

- Airfield Lighting - AirPort Operations Centre (APOC)
- Fire Safety
- Security Access Control
- Boarding & Disembarking Flow
- Building Management
- Passenger Boarding Bridge
- Baggage Handling

Our affiliate, FB Technology is the worldWide leader in Airfield Photometry and offers a large range of equipments and services.

## > MAIN REFERENCES

We have successfully completed a number of major projects for the airport industry:

- Paris-Charles de Gaulle & Paris-Orly
- Oslo International airport
- Mohammed V Int. Airport (Casablanca)
- & many others

Our solutions not only provide competitive advantage for our clients, they are delivered on time, within budget & with minimal disruption to ongoing operations.

As a result, many clients return to us time after time to take care of their automation control requirements.

## > CONTACT

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Certified ISO 9001:2015 / EN 9100:2018

# ALTYS Technologies

Our engineering company specializes in Communication and Navigation.

Surveillance (CNS) systems, with corporate and principal place of business in Toulouse, France, and a US subsidiary in Miami, Florida. Founded in 2000, the company is a leading partner to Air Navigation Service Providers (ANSPs) worldwide.

## > PRODUCTS & SERVICES

### COMMUNICATION

- integrated datalink systems (VDL2/ATN/CPDLC/Satcom);
- large-scale datalink monitoring
- validation benches

### NAVIGATION

- GBAS testing

### SURVEILLANCE

- 1st & 2nd generation Multilateration (MLAT)
- Airside surveillance (RWY, TXY, Apron)
- AI-based supervision
- Turnaround Management
- A-CDM

## > MAIN REFERENCES

- Airbus     ● AustroControl     ● Airport Authority of India     ● Alenia Aeromacchi     ● Dassault Aviation     ● DFS, DNSA     ● Embraer     ● ENAIRE
- ESSP     ● EUROCONTROL     ● Garmin     ● GE Aviation     ● Gulfstream
- GVK     ● HondaJet     ● Honeywell     ● HungaroControl     ● L3HARRIS
- Leonardo     ● MITRE     ● NASA     ● NATS     ● NavPortugal
- Rockwell Collins Aerospace     ● SITA     ● Sukhoi     ● THALES LAS
- THALES Avionics

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## BODET Time&Sport

Bodet Time is a French company specialized in time distribution and time synchronization as well as audio systems. The company's position in the time display market is due to its analogue clocks as well as LCD or LED digital ones. As well as designing master clocks and time servers the company also manufactures a wide range of audio solutions.

Bodet Time has been selling all its products in France and abroad for more than 40 years.

## > PRODUCTS & SERVICES

Our time servers and our clocks are essential to the safety of air traffic. The time server synchronizes your computer network in a highly secure manner: clocks, computers, video surveillance systems, access control, traveler information databases, and baggage handling systems.

This has many advantages:

- Easier traffic control and regulation: reduced risk of delay and collision
- Anticipating delays and informing users
- Precise tracking of parcels
- Enhanced data security
- Time-stamped border control activities
- Better coordination of your teams.

## > MAIN REFERENCES

Bodet Time is active in markets all over the world, particularly in the countries listed below:

- Adolfo Suárez Madrid-Barajas Airport, Spain
- Lyon-Saint-Exupéry Airport, France
- Milan Malpensa Airport, Italy
- Lisbon Airport, Portugal
- Budapest Ferenc Liszt International Airport, Hungary
- Warsaw Chopin Airport, Poland
- Sofia Airport, Bulgaria
- Cairo International Airport, Egypt
- Ankara Esenboga International Airport, Turkey
- Algiers International Airport, Algeria
- New Bangkok International Airport, Thailand
- Soekarno-Hatta International Airport, Jakarta Indonesia

## > CONTACT

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## CODRA

Codra has supported the airport sector for several years by offering a SCADA platform that meets their cybersecurity and digital transformation challenges.

Through our experience in highly sensitive SCADA projects, Codra has always paid close attention to IT security. This methodology is how Panorama became the 1st SCADA Platform to obtain the First-Level Security Certification (CSPN) awarded by ANSSI, the French government's cybersecurity agency.

## > PRODUCTS & SERVICES

Panorama Suite is implemented to monitor and control critical applications such as telecommunications and networks, surveillance, and air traffic control management. These applications are deployed by the French Civil Aviation Agency (DGAC) in ATM operational centers all over France to guarantee the highest maintainability of a safe and efficient Air Traffic Management.

Key points :

- Compliant with the latest cybersecurity requirements;
- «Object-based» application design that allows standardized deployment and simplified maintenance;
- Easy customization of applications as per site characteristics.

## > MAIN REFERENCES

- DGAC / DTI (French Civil Aviation Agency)
- CRNA (French ATM operational centers)

Partners:

THALES - TELERAD - FREQUENTIS - CISCO - HP





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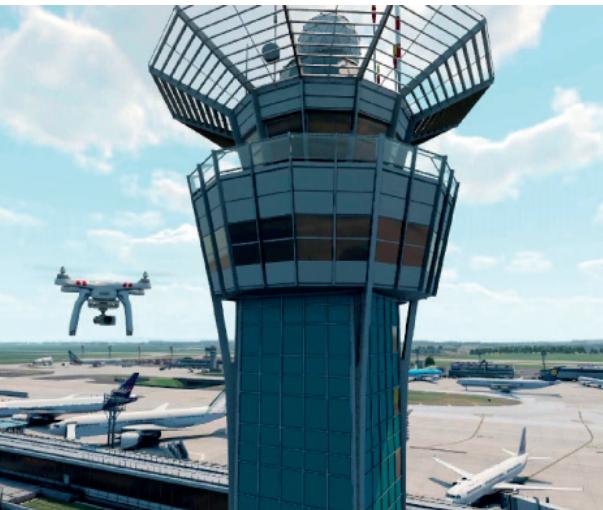


## CS Group

CS Group is a key actor in the design, integration, deployment and support of critical systems in various domains, including Air Traffic Control, defence and territory protection:

- ▶ Counter-drone solution to prevent malevolent drones from entering restricted areas such as airports
- ▶ VCS voice communication for all ATC needs including En-route, APP, TWR and simulator
- ▶ Simulation for ATCO training: APP, 3D TWR
- ▶ Cyber-secured solutions: hardened OS, trusted solutions, SOC

## > PRODUCTS & SERVICES



**BOREADES** is our integrated counter-drone solution, designed to detect, identify, classify and neutralize drone threats, and locate their pilots. It has been successfully deployed since 2016.

**CSoIP** is our full-IP VCS product, EUROCAE-ED-137B compliant. This innovative product fully complies with current and future needs of both civilian and military control centres. CS also offers a recorder and an IP-analogue gateway.

**CS' ATC Simulator** features a powerful scenario generation tool, intuitive pseudo-pilot tool and ultra-realistic 3D display, enabling ATCO trainees to have total immersion in the airport's environment.

## > MAIN REFERENCES

### BOREADES counter-drone :

- European program ALADDIN H2020: consortium leader
- EUROCAE C-UAS WG-115: secretary and technical support
- French police: tactical system for event protection (2016)
- French MoD: sensitive air/land sites protection (On-going)

### CSoIP VCS :

- NATO: ACCS program centres, 16 european countries
- DSNA: Paris-CDG (APP/TWR) + all 5 French ACC (backup)
- Skyguide: Geneva and Dübendorf ACC (backup)

### ATC simulator :

- DSNA: Paris-Orly, APP and 3D-TWR simulator (ongoing)
- CICDA: French Military ATCO training centre (APP + 3D-TWR)

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**Wide Range of Products**  
STRONG RESEARCH & DEVELOPMENT POLICY

**A W O S**  
AUTOMATED WEATHER OBSERVING SYSTEM AND WIND PROFILER FOR AERONAUTICAL APPLICATIONS

**PCL1300 Wind Profiler**  
KNOW-HOW, QUALITY & TECHNICAL EXCELLENCE

DEGREANE HORIZON propose un large éventail d'équipements météorologiques et de sensibilités pour les aéroports et les aérodromes.

APPLICATIONS :

- ✓ Wind shear detection
- ✓ Wind profile for aeronautics
- ✓ Wind profile for Weather Predictor Systems
- ✓ Measurement coverage for atmospheric research
- ✓ Sporting events

DEGREANE HORIZON  
The Weather Sense

# DEGREANE HORIZON

DEGREANE HORIZON, a company of the Vinci Group based in France, is a meteorological specialist. DEGREANE HORIZON is among the world leaders for engineering and manufacture of advanced meteoro logical products and systems for aeronautic meteorology and professional observing networks.

DEGREANE HORIZON is an ideal and reliable partner for the supply of turnkey system solutions from manufacturing through installation, training and long-term support.

## > PRODUCTS & SERVICES

- Automatic Weather Station networks : assuring the acquisition and processing of standard meteorological parameters in accordance with WMO and ICAO standards.
- Meteorological aeronautic sensors: forward scatter sensors, transmissometers, wind sensors, ceilometers, ground state sensors.
- Automated Weather Observing System : The system developed specifically for airports includes a set of meteorological sensors, an acquisition platform, CAOBS Chrome software and digital indicators.
- Wind profilers radars : for wind shear detection and vertical wind profile measurement.

## > MAIN REFERENCES

DH is a long-time partner of national Met services, civil aviation authorities, armed forces, ministry of defense and Met research institutes.

The company has more than 30 years of know-how, with more than 1500 stations deployed in over 400 airports equipped with AWOS in over 100 countries.

Some of our references:

- ASECNA selected DH to deploy a network of 39 synoptic stations in Africa,
- 27 sites managed by ASECNA have been equipped with AWOS,
- MFI chose DH to equip 8 airports in Angola with AWOS,
- PCL1300 Wind Profiler Radar has been adopted by numerous MET services (UK, Switzerland, France, Korea)

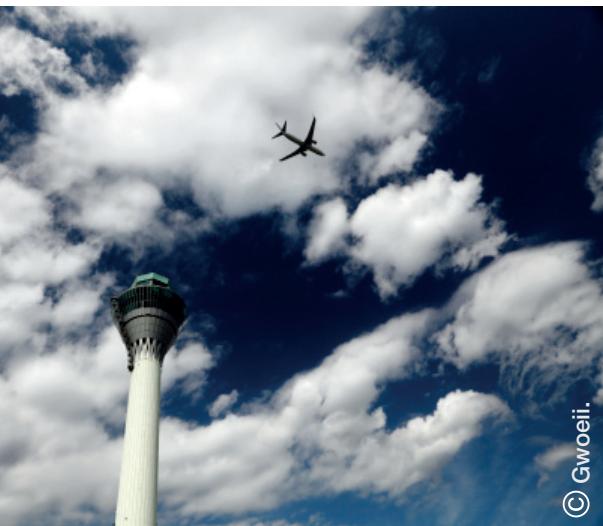
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© Gwoeii.

## EGIS

Egis is an international group offering consulting, engineering, and operations services across many sectors, including transport, urban development, buildings and environment.

For over 50 years, Egis has worked with ATM operators, airport and aircraft stakeholders to solve the complex issues of tomorrow, from strategy and design to implementation.

Egis has a worldwide presence to support local customers with business, technology, regulation, human and environmental transformation in ATM.

## > PRODUCTS & SERVICES

### CONSULTANCY & STRATEGY

- Policy & regulation
- Strategy & planning
- Project structuring & finance
- Operational concept definition

### TRANSFORMATION

- Regulatory & business change management
- Safety, security and human performance management
- ATM master plan, procurement & deployment strategy

### TRANSITION TO OPERATIONS

- Airspace design & implementation
- System design & implementation
- Safety assessment

## > MAIN REFERENCES

- Consultancy and engineering support to achieve strategic transformation - skeyes, Belgium
- Supporting ATM system change through strategy, system definition, procurement & deployment - BULATSA, Bulgaria
- Preliminary study of SBAS ASECNA programme - Thales Alenia Space
- Consultancy, training & management support on SESAR 2020 projects - PANSA, Poland
- Complete redesign of Saudi airspace and procedures - Saudi Air Navigation Services
- Comprehensive technical assistance to the definition, integration, validation & deployment of ATC systems, including Human Factors and safety assurance - DGAC/DSNA, France
- Framework contract to support 3 key groups in policy development on SES - EC, Belgium



ej

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## EJ

EJ is the world leader in the design, manufacture and distribution of manhole covers for lighting, refueling, water, sewer, telecommunications and utility networks worldwide.

EJ is a specialist in the airport industry with an innovative range of F900 load class access and drainage solutions. EJ works closely with airport authorities to design and customise solutions to best suit the most challenging of projects considering safety, ensuring reliability and bringing our expertise.

## > PRODUCTS & SERVICES

Our airport range of solutions includes F900 load class circular access covers, double triangular access covers, FOD-compliant assisted hinged hatches and multipart covers which are custom built for access to pits and trenches. These feature many options such as watertightness, safety bar, removable cable plug, ground connection, badging, and epoxy coating.

EJ manhole covers and drainage gratings are made from ductile iron, galvanized steel, aluminum and composite to enhance safety on taxiways, runways, ramp areas, refueling points, parkings, airfield lighting and hangars.

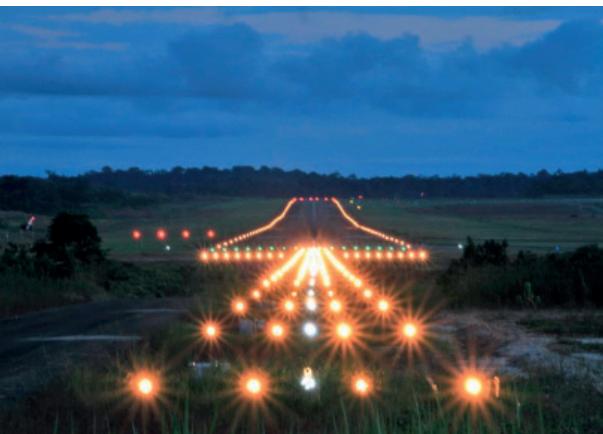
## > MAIN REFERENCES

- Paris Charles de Gaulle, Paris-Orly, Nice Cote d'Azur, Lyon Saint Exupery Airports, Airbus Toulouse - France
  - London Heathrow, London Gatwick Airports - UK
  - Los Angeles, Denver Airports - USA
  - Munich, Dusseldorf, Berlin Tegel, Hambourg Airports - Germany
  - Madrid Barajas, Barcelona, Palma de Majorque, Malaga, Valence, Gran Canaria, Alicante, Tenerife South et North, Séville Airports - Spain
  - Dubai Airport - United Arab Emirates
  - Hong Kong, Beijing Capital Airports - China
  - Changi Airport - Singapore
  - Bangalore Airport - India
  - Soekarno-Hatta Airport - Indonesia
- and many more...

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Airfield lighting in Yaoundé

## ENGIE Solutions

With its 20,000 employees, ENGIE Solutions has the resources and skills to meet your requirements in terms of geographic proximity and expertise.

With more than 50 years' experience and prestigious international references, ENGIE Solutions designs, installs and maintains the critical telecommunications and information systems that equip air traffic control towers and centres in France and abroad.

## > PRODUCTS & SERVICES

ENGIE Solutions includes in its portfolio products and services for Air-Traffic Control and airport facilities.

Products and systems range from runway and airfield facilities, ATC/ATM systems to telecommunications networks.

AIRvoice is the full-IP VCCS, AIRtouch is the integrated tower control, monitoring and supervision suite, and AIRrecord the full-IP voice recording.

Solutions include ATC/ATM critical telecommunication networks, from airport fiberoptic loops to continental VSAT networks.

ENGIE Solutions know-how encompasses turn-key programmes and services such as project management, engineering, integration, deployment and commissioning, training, and maintenance.

## > MAIN REFERENCES

- Worldwide ENGIE Solutions references.
- At the Brazzaville airport, ENGIE Solutions installed a 20kV delivery station, the 2 x 600kV electric power plant, and electrical equipment.
- ENGIE Solutions is the world leader for VSAT networks design and deployment of aeronautical critical communications networks; design, deployment and maintenance of NANSC, the National VSAT network of 22 stations for the Egyptian ANSP. In South America REDDIG I & II Networks with 16 stations, in Africa for ASECNA, ATNS (AFISNET, SADC, NAFISAT networks).
- ENGIE Solutions turn-key solutions include project management services for new control centres, airports and the modernisation of existing facilities.



## > CONTACT

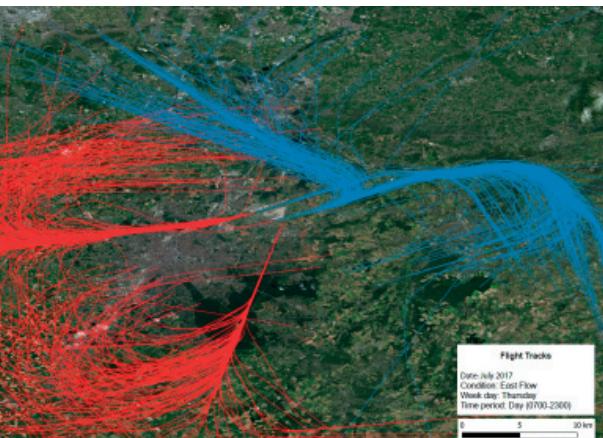
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## ENVISA

Established in 2004, Envisa is a global environmental consulting company specializing in sustainable aviation.

The team of experts provide support to the industry's biggest companies and influential research projects in such topics as environmental impact and trade off assessment, local air quality, global emissions, emissions trading scheme, noise modelling, aircraft recycling research and LCA, forecasting, environmental performance and environmental management.

## > PRODUCTS & SERVICES

The unique advantage of ENVISA is the full coverage of and competence in environmental sustainability topics within the aviation sector.

ENVISA's mission is to provide customised services and solutions for sustainable aviation and improve our clients' energy efficiency, strengthen their public image and increase their profits in a sustainable way. As a World Business Partner of ACI Europe, our goal is to help airports and all aviation stakeholders find cost-effective solutions to managing and growing their businesses in an environmentally friendly way.

## > MAIN REFERENCES

For more than 16 years, support has been provided to European organizations (EUROCONTROL & EASA) for the development, validation of environmentally friendly routes and aviation environmental toolsets.

ENVISA developed tools, methods and software applications dedicated to defining the full environmental impact of aviation : noise (Belgian Ministry of Transport, Egis, Clean Sky), emissions (KKIA), local air quality such as supporting ACA (ADP, VINCI) or research projects (RAPTOR project), contrails, interdependency, CBA etc..), consulting on new technologies SAF, E-VTOL, Green Labelling for aviation for EASA.

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# France Aviation Civile Services

Founded in 2013 by the French Civil Aviation Authority (DGAC) and the French Civil Aviation University (ENAC), France Aviation Civile Services is the expertise and consultancy office of French civil Aviation.

France Aviation Civile Services relies on 11,500 experts operating on the five continents.

## > PRODUCTS & SERVICES

- Regulation and aviation safety oversight : safety oversight system
- Operations optimisation : airspace design, ANSP Modernisation, A-CDM
- AFIS
- Innovative solutions : ELVIRA
- Operational training : ATC Supervisor (with ENAC), training in continuous operations
- Air transport statistics : air transport databases
- Regulatory standard compliance services : ICAO, EASA

## > MAIN REFERENCES

- Sudan:**  
*25-month project - contract value €1,000,000 - airspace reorganization*
- Vietnam:**  
*36-month project - contract value €350,000 - Project to optimize the airspace between Hanoi and Ho Chi Minh City to improve safety and efficiency*
- Bolivia:**  
*12-month project - contract amount \$500,000 - Airspace reorganization and ACC transition assistance*
- Colombia:**  
*9-month project - contract value \$250,000 - optimization of the TMA in Bogota*
- Haiti:**  
*48-month project - contract amount €4,000,000 - establishment of a oversight authority*

## > CONTACT

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# GORGY TIMING

GORGY TIMING designs, produces and sells time synchronization solutions and innovative indoor and outdoor LED displays dedicated to airport applications worldwide.

We are an active actor in the development of Green Airport programs and a strategic provider for airports. Our innovative solution LEDI® Timer allows to reduce the waiting time at the runaway holding which saves fuel and allows air navigation service efficiency.

## > PRODUCTS & SERVICES

- Global product offer - LED digital clocks, analog clocks, time servers, time centers, communication displays.
- Services - Hot Line, site assistance commissioning, warranty extension, training, site acceptance test, factory acceptance test.
- Our bestseller is the LEDI® Timer dedicated to airports, which considerably improves reading distance for flight and ground staff. This solution was widely rolled-out at the Airport of Lyon, to maximize the flights' punctuality.

## > MAIN REFERENCES

Over 600 international airports and air traffic control centers worldwide and in France :

- Australian Air Services : renewal of air traffic control systems
- South Africa : Civil Aviation Authority
- Middle East (Jordan: Queen Alia Intl Airport ATC, Qatar: Doha Airport ATC & Terminal, Egypt: Cairo, Assiut, Hurghanda Intl Airport Terminal)
- Asia : Hong Kong ATC, Vietnam Noi Bai, Danang ATC, Thailand, Brunei, Philippines, Turkmenistan
- Europe : Paris-CDG airport, Paris-Orly airport, Lyon airport, ATC Barcelona Airport, Control Tower Frankfurt, Air Traffic Control and Management Support Systems (NAV) in Portugal





## > CONTACT

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## Innov'ATM

Innov'ATM is an innovative technology company based in Toulouse, founded in 2014 and a subsidiary of Groupe ADP since 2018. Counting on 30 highly skilled engineers and our ATI expertise we help Air Transport Operators with the most effective, efficient, sustainable, shared and agreed decision making technology solutions, through artificial intelligence and machine learning.

## > PRODUCTS & SERVICES

- SkyKeeper® for Air Traffic Management includes a ATFCM, a coupled AMAN/DMAN and an SMAN to optimize traffic and sequencing.
- AirportKeeper® includes Advanced ATC Tower, Full A-CDM and Total Airport Management to optimize airport resources and disruption management on a cloud platform.
- FlyKeeper® for airlines includes a Hypervisor and Total Fleet Management to optimize fleet and ground operations and manage disruptions.
- Innov'ATM is contributing to HOLOGARDE, a complete system to detect, identify, track and neutralize malicious drones.
- Innov'ATM is contributing to HOLOGUIDE FIMS and HOLOGUIDE USP solutions to optimize collaborative drone management.

## > MAIN REFERENCES

- Within the SESAR JU PJ02 EARTH project, skyguide integrated SkyKeeper coupled AMAN/DMAN to optimize runway operations and increase capacity at Geneva Airport.
- ENAC Research Department operates SkyKeeper Live Trajectory Predictor.
- DSNA commissioned Innov'ATM to contribute to CDG ATFCM solution.
- EuroAirport Basel Mulhouse Freiburg uses AirportKeeper to optimize their resources.
- Partnership with DSNA for the U-space Together program to support pre-operational U-space services in ORY, CDG, LBG and SXB airspaces.
- Integration into SUSI, Swiss U-Space Implementation program by FOCA with HOLOGUIDE as USP.

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## SAFETY LINE

Safety Line offers Big Data software solutions for the safety and efficiency of airline and airport operations with a focus on fuel and CO2 emissions reduction.

The combination of solid expertise in aviation associated with patented research in data science applied to air transport allow Safety Line to offer uniquely innovative solutions.

## > PRODUCTS & SERVICES

- AirsideWatch is a Business Intelligence platform driven by airports surface RADAR which provide precise insights into performance indicators.
- SafetyCube is a unique risk management software that integrates every aspect of operational safety and compliance.

## > MAIN REFERENCES

- Groupe ADP (CDG, Orly, Le Bourget)
- ADP Ingénierie
- Geneva Airport
- Gatwick Airport



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## **SETEC INTERNATIONAL**

SETEC with over 3000 employees and annual revenues of €330 million is one of France's largest engineering firms. SETEC is a leading player in project design, construction and management as well as client assistance and representation. Vast multidisciplinary expertise enables SETEC to contribute to key aspects of air transportation and airport projects including air traffic forecasting, airline growth strategies, marketing, business plans and financing packages, airport design and construction.

## > PRODUCTS & SERVICES

### **DESIGN YOUR AIR MOBILITY TRANSPORT SYSTEM BY DRONES AND VTOL**

To make Air Mobility a reality SETEC has developed independent engineering services with a 360° view to design your air mobility transport system of drones and flying taxis (VTOLs) for goods and passengers. SETEC combines multidisciplinary expertise in airport industry, infrastructure, mobility, logistics, UAVs and VTOLs to provide Feasibility & Market Studies, Proof of Concept, Project Management and Technical Expertise.

SETEC is affiliated with French Drone Organizations (DGAC, Safe Cluster) for sharing experiences and lessons learnt in order to shape tomorrow's mobility efficiently.

## > MAIN REFERENCES

- Airfield lighting
- Airfield operation
- ATC tower design
- International Passenger Drones Market Study
- Medical Delivery Drones in Europe Benchmark
- Market Study in city Area, France
- City < > Airport Shuttle Feasibility Study
- Automated Drone Proof of Concept for Remote Monitoring
- Roof Top Delivery Platform on Existing Building
- Vertiport Technical Expertise
- Noise Impacts Study

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## TELERAD

Radio communications solutions for critical operations.

Our aim is to provide our civil and military customers complete solutions for aeronautical and maritime radio communication systems.

Our products and systems meet the most stringent requirements. Our globally recognized innovative solutions are designed to guarantee our customers quality, reliability and performance.



## > PRODUCTS & SERVICES

VHF and UHF radio systems extending to :

- Navigation Aid Systems as Non Directional Beacons,
- VHF Data Broadcast for Differential landing systems (GBAS - Ground Based Augmentation Systems).

## > MAIN REFERENCES

### Civil Aviation Authorities & Air forces

- France
- Belgium
- Switzerland
- USA

### Airlines, Airports and Industrial companies

- Paris airports
- Incheon Airport
- Air France
- Thales
- Airbus
- Honeywell
- General Dynamics

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# THALES AIRSPACE MOBILITY SOLUTIONS

Thales is the world leader in air traffic management solutions. An impressive 2 out of every 3 planes around the world land and takeoff with the help of Thales.

We combine half a century's experience in development and deployment with an unrivaled worldwide installed base, advanced technology and ground-breaking innovations to deliver solutions that are continually adapted to the ever-changing aviation system's needs

## > PRODUCTS & SERVICES

World leader in ATM, Thales offers integrated gate-to-gate solutions, from pre-flight to landing, ensuring airport safety, efficient traffic handling operations, data sharing on aircraft and seamless handover operations between territories. Thales has the largest installed base of solutions and technologies with over 360 TopSky - ATM Solutions, 7,000 navaids, 700 surveillance radars, and 1,800 ADS-B and multilateration equipment.

## > MAIN REFERENCES

ATM operators in over 170 countries put their trust in Thales.



**FOR MORE INFORMATION**  
**Please visit :**  
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