



# AeroSPI International Air Show

27 & 28 Sep. 2018

Pôle aéronautique Istres Jean SARRAIL



REGION  
SUD  
PACA



DEPARTEMENT  
DES  
BOUCHES  
DU RHONE



ARC  
MARSEILLE  
PROVENCE



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AERONAUTIQUE  
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JEAN SARRAIL



EDEN



POLE MIP



**AeroSPI International Air Show** is a major event which is meant to promote aircraft-driven surveillance/ observation solutions for Defence and Security applications to international clients, prospects and partners.

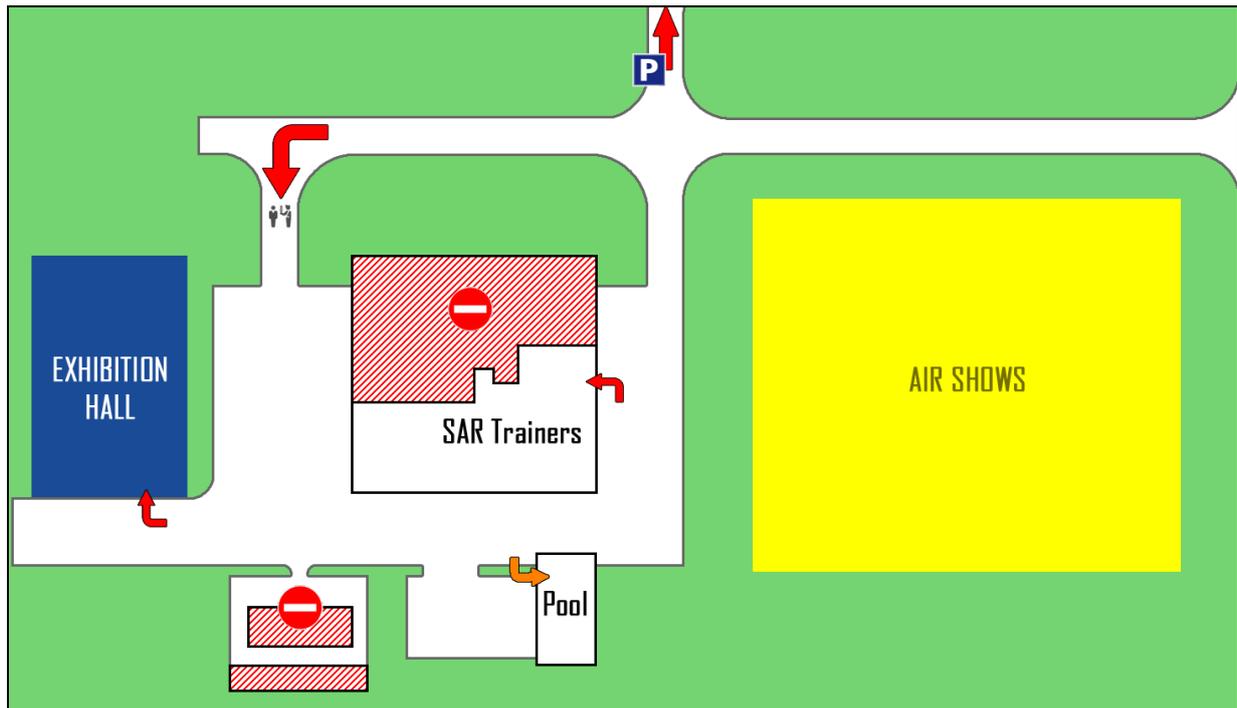
Because they are mainly developed and provided by technological Small and Medium-sized companies, these solutions are cost-effective and have in common to focus on the operational advantages of aerial vectors (planes, helicopters, UAVs, airships) in the achievement of Surveillance, Protection and Intervention missions.

They are aimed at people who are involved in the management of sensitive areas in the whole world.

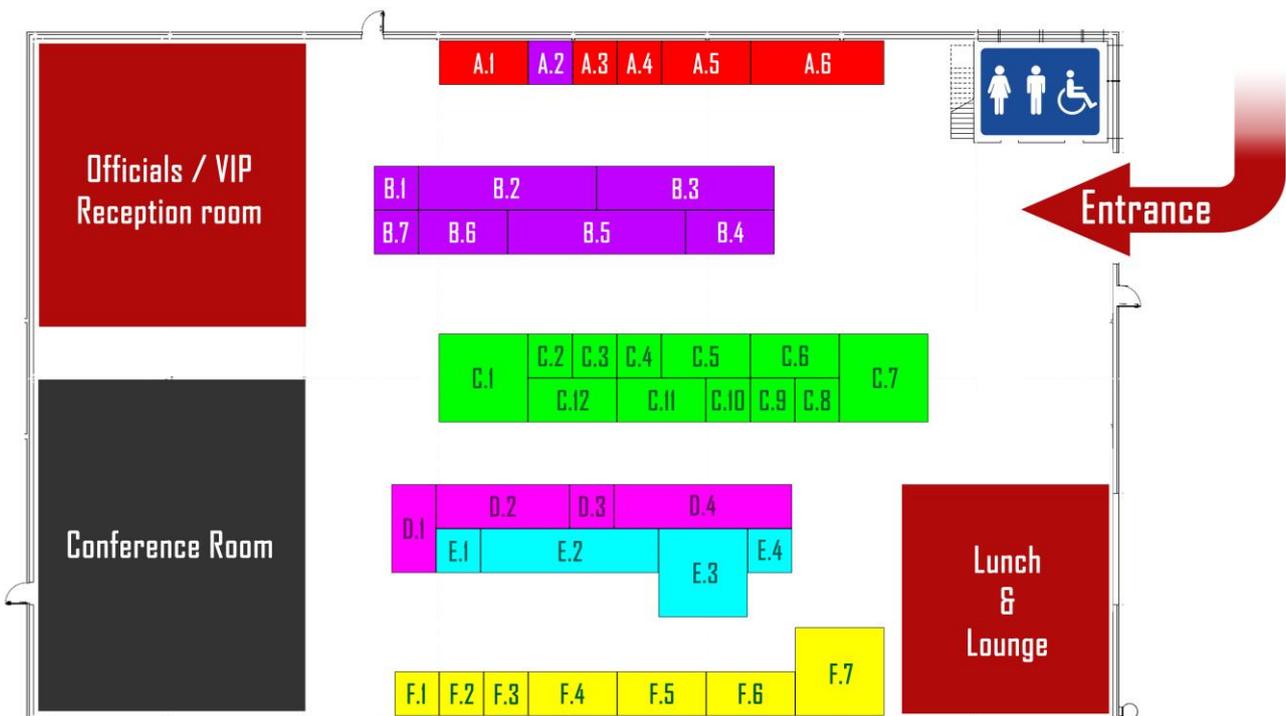
The format is a 2-day exhibition including **conferences** by experts on specific issues, static **exhibitions, air shows**, and continuous **live demos** on the **simulators** of VSM Training Center.

Exhibitors are located in thematic villages : aerospace vectors, embedded systems and in-flight processing, materials and equipment, Intervention, Training and Simulation, Institutions and Partners.

### SITE MAP



### EXHIBITION HALL MAP



## EXHIBITORS

## STAND

	<p><b>6MOUV</b> professional simulators</p> <p>We have been designing and manufacturing professional flight simulators for airplanes and helicopters for the past thirteen years, to our customer's complete satisfaction. The high quality of the visual system, which has been emphasized by the EASA evaluation team, allows us to propose many tools for specific training such as the approach and landing on an oil rig, the winching, the flight in mountains and the fire fighting.</p> <p>Our cockpits are very close to those of the aircraft simulated, so that our simulators, with a FTD level 2 qualification, can be used to prepare a type rating.</p>	<p><b>F.1</b></p>
	<p><b>Armée de l'Air Française</b> – Bureau d'Information et de Recrutement des Forces Armées</p> <p><b>French Air Force</b> - Information and Armed Forces Recruitment Center</p>	<p><b>F.2</b></p>
	<p><b>Armée de l'Air Française</b> – BA 125 « Conservatoire du Patrimoine Istréen »</p> <p><b>French Air Force</b> – Air Base 125 Conservation Registry</p>	<p><b>C.12</b></p>
	<p><b>Airbus Helicopters Training Services (AHTS)</b> is a worldwide reference for the helicopter training industry.</p> <p>With more than 50 years of excellence, AHTS provides the most comprehensive and professional training (from pre-entry level courses to advanced mission training) to its pilot and technician customers with a standard of aeronautical courses corresponding to worldwide regulations and military requirements.</p>	<p><b>A.1</b></p>
	<p><b>AIRTELIS</b> : advanced technology aerial work company.</p> <p>An expertise both in power grids and aerial interventions. Innovative equipment unique in Europe.</p> <p>2 EC 225 Super Puma are dedicated to complex aerial interventions. AIRTELIS also proposes training programs and integrated solutions.</p>	<p><b>E.2</b></p>
	<p>With 150 years of history <b>Apave Group</b> is a world-renowned group that offers all-round expertise aiming to increase the safety of personnel and assets and optimize organizations' operational performance. Since 2010, the Apave Group offers a range of civil and military aviation safety services, covering oversight authority tasks, audits, technical control, training and consulting services through specialized entities: OSAC and Apave Aeroservices. With Certidrones, Apave Aeroservices offers a full safety audit procedure for RPAS operators based on risk analysis.</p>	<p><b>A.4</b></p>
	<p><b>APPI-Technology</b> manufactures communication and security equipment for the most demanding environments.</p> <p>APPI-Com is the most advanced wireless tactical field communication device: It provides a full-duplex and long-range solution for all teams in hostile, noisy or confined environments. It improves users safety thanks to its new features: LWP (Lone Worker Protection) with voice alert, no fixed nor mobile base (SyncAll patent), identification and voice alert of connected users (SafeLine patent), Pager button, etc...</p>	<p><b>B.4</b></p>
	<p><b>Assystem Technologies</b> is a global player in engineering services, quality assurance, consulting and digital solutions for customers in the sectors of aeronautics &amp; space, automotive, defence, industry, transportation and financial services.</p> <p>The company distinguishes itself by cutting-edge technical know-how and proven expertise in complex and critical systems.</p>	<p><b>B.3</b></p>
	<p><b>ATEM</b> : 2 Business Units</p> <ul style="list-style-type: none"> <li>- <b>ATEM Aero Defense</b> : engineering and manufacturing of RF &amp; Microwave Coax cables assemblies and sub-systems</li> <li>- <b>ATEM Security</b> : radar technology for perimeter and wide area security and surveillance</li> </ul>	<p><b>B.2</b></p>
	<p><b>ATIC</b> : French designer and manufacturer of inflatable solutions and waterproof products. With more than 30 years of experience in the assembly of flexible materials, our company has developed civilian and military Hélitreuable stretchers, life-saving boards, inflatable stretchers and mattress, platforms and inflatable ramps. We also store all types of liquid, gas in flexible stockers/tanks. We manufacture all types of buoys (round, cubic and tetrahedral), buoyancies reserves, parachutes and airlifting balloons. We deliver the Marines, shipyards and ports for water ballasts and all types of sea pollution control and inflatable booms, anti-jellyfish or algae. 100% of our products are designed internally and come out of our workshops.</p>	<p><b>D.4</b></p>

	<p>The Marseille-Provence Chamber of Commerce and Industry (CCIMP) represents 94,000 businesses in the Aix-Marseille-Provence region and provides support for their projects. Its work combines meeting the daily needs of businesses with tackling regional challenges in order to make the transformation to international standards. Because the growth of Aix-Marseille-Provence depends on a strong industry providing skilled jobs and innovation, CCIMP is supporting the industrial sector in rising to the challenge of change, promoting the development of sectors of excellence and major metropolitan projects, while striving to set up new ones and to anchor our treasures firmly in the region.</p>	<p><b>C.1</b></p>
	<p><b>CFAGN</b> : The Airforce Command of the Gendarmerie Nationale, based in Velizy-Villacoublay (France) deploys 29 operational units all over the domestic, overseas territory. Pilotes, aircrafts mechanics, and airsurvey operators fulfill their missions of general state security (public order, general watch, inquiries and investigations, anti-terrorist combat, and road safety), and rescue in specific areas onbaord of helicopters types EC 135, 145 or Squirrel. AeroSPI 2018 : EC135 helicopter equipped with a crisis mapping SC2 pod.</p>	<p><b>E.1</b></p>
	<p><b>COLLIN FORMATION</b>, first private insitu training center located in the south of France and specialized in medical simulation, is meant to improve the technical and non-technical skills of extra hospital emergency health professionals. Thanks to <b>SESAME SIMULATION</b>, a high fidelity mannequin, and to our team of instructors, we provide a turn-key medical training solution.</p>	<p><b>F.5</b></p>
	<p><b>Conseil Départemental des Bouches-du-Rhône</b></p>	<p><b>C.4</b></p>
	<p><b>COSMOPTER group</b>: Aviation engineering. Design and UAV's production. Security's aerial pictures (In the visible and / or invisible spectrum). Calculations and reports for industry. Training activities related to the business of UAV (Unmanned license and professional skills) <u>AeroSPI 2018</u> : Aerial surveillance UAV implemented by Istres City Police. Geofencing 3D avec ségrégation de zones photographiques pour les espaces aériens réglementés, tels que les zones militaires ou les zones civiles (Centrales Nucléaires...)</p>	<p><b>A.5</b></p>
	<p><b>EDEN</b> (European Defence Economic Network), a cluster of SMEs in Defence, Safety and Security, was founded in 2008. The cluster marks its tenth anniversary this year. EDEN brings together an ecosystem of about 130 SMEs. These companies account for 9,000 jobs and nearly a billion Euros in turnover, more than half of which is from export. They cover four areas of complementary activity : equipment for aircraft, ships and vehicles; detection, protection and monitoring; engineering and testing; personal protection.</p>	<p><b>C.10</b></p>
	<p><b>Electric Vehicle World Tour</b> We want to promote clean mobility and renewable energies by achieving the 1st round the world with a vehicle converted into electric and recharged only with solar energy.</p>	<p><b>Ext.</b></p>
<p><b>Flight Test Support</b></p>	<p><b>Flight Test Support</b> - Static exhibition of a plane, BAC JET PROVOST G-BWEB type.</p>	<p><b>Ext.</b></p>
	<p><b>GEOSOND</b> provides solutions to civil and military markets through a new generation of airborne radars able to probe the ground. It is supported by the French Department of Defense. For military needs, the GEOSOND solution can detect cavities built by men such as tunnels or bunkers. GEOSOND also aims to locate buried objects (eg IED,...) to a depth of to ten meters depending on the nature of the soil. On the side of the civilian markets, the radars deployed by Geosond will allow to reconstruct the geology of the subsoil for several hundred meters and thus identify sources of water and new mineral resources. Thus identify sources of water and new mineral resources.</p> <p>4 companies on the booth: <b>Action Air Environment, Atechsys, RCS</b> and <b>NERYS</b>, project leader, known for its expertise in the design, development and integration of test solutions for industry, including aeronautics, automotive and nuclear.</p>	<p><b>A.6</b></p>



**Astronics Max Viz** is the manufacturer of a range of Infra Red Sensors called EVS (Enhanced Vision System). These sensors are designed for improved situational awareness in all phases of fixed and rotor wing flights. The Max Viz EVS :

- improve crew vision, at night, but also in any case of DVE (Degraded Visual Environment) like haze, light fog, white out or brown out.
- are traditionally mounted in the front section of the helicopter in order to bring to the crew a forward looking IR image which is depicted on a MFD (Multi Function Display).
- can also be positioned next to the helicopter hoist and in that case the pilots can also monitor the hoist operation. This is particularly interesting at night.
- by improving crew vision, the Max Viz EVS are therefore improving Safety.

**D.3**



The DGA Economic Development of the **Aix Marseille Provence metropolis** is present in each territory to ease the life of companies and accompany them on several levels: implantation, creation, financing, innovation, recruitment, networking ...

Largest of the regional metropolises of France by its size, the metropolis Aix Marseille Provence deploys on a vast territory (3149 km<sup>2</sup>) and multipolar organized around the 92 towns.

It is the first economic Pole of southern France, and declines its actions on the 6 territories to support its 200 000 establishments and to maintain its 740 000 jobs.

The Aeronautic pole Jean Sarrail in Istres is one of the 6 structuring projects carried by the Aix Marseille Provence metropolis.

**C.7**



**NEXEYA** is an innovative industrial group that operates mainly in the Defense, Aeronautics, Space, Energy, Railway and Automotive. NEXEYA has a catalogue of products and also meets the specific needs of his customers, adapting their own solutions. NEXEYA provides the defense sector with on board equipment, command control systems, telemetry equipment,...and required supports to install the delivered systems.

**B.6**



**City of Istres Tourist Office** : The best way to discover Istres Ouest Provence.

**C.7**



**ONERA** is the French national laboratory for aeronautics and space R&T, staffed by more than 2,000 people. Under the supervision of the French Ministry of Defense, ONERA has an annual budget of 207 million euros, of which more than half comes from commercial contracts. As the French expert in aerospace technologies, ONERA prepares tomorrow's defenses, meets the aerospace challenges of the future, and contributes to the competitiveness of the European aerospace industry. ONERA masters all the disciplines and technologies in its aerospace fields. All major civil and military aerospace programs in France and Europe contain "DNA" from ONERA: Ariane, Airbus, Falcon, Rafale, missiles, helicopters, engines, radars, etc

**F.3**



Created in 2005 under the name "West Provence Business Club" and now "**OPEn** - Ouest Provence Entreprises", our association acts for the economic development of VSE / SME and for employment in the west of the Pond of Berre. Born from the joint will of a handful of business leaders and the West Provence intercommunal, the Club is apolitical and independent and now has nearly 120 members. Its ambition is to boost the local economic fabric by proposing actions favoring meeting, exchange and progress.

**C.5**



For over 40 years, **Petzl** has built on its expertise in the design and manufacture of products for verticality and lighting.

These expertise make it possible to produce equipment that corresponds to the technical constraints of use, for example evacuation by helicopter.

This technique is appropriate when access to the victim is difficult and / or remote or when the intervention must be very fast. Its implementation makes use of specific units.

**E.3**



As a Local Public Corporation, **Pôle aéronautique «Istres-Jean-Sarrail»** is a major economic operation driven by Métropole Aix Marseille Provence and the City of Istres, initially with the financial support of the Conseil Départemental des Bouches-du-Rhône and Région SUD.

Taking advantage of its close proximity to the Air Base 125 infrastructure (5 km-long runway, DGA Flight Test Center), the site offers very interesting land and real estate opportunities to companies.

It is taking part in the emergence of the new « Airships » industry, with the « AIRSHIP VILLAGE ».

**C.7**



**Pôle Formation UIMM Provence Alpes Côte d'Azur – CFAI** :  
« La fabrique de l'avenir » / « The Future Factory »

**F.4**

	<p><b>Pôle Mer Méditerranée</b> is a cluster whose ambition is to develop the maritime and coastal economy in a sustainable manner.</p>	<p><b>C.10</b></p>
	<p><b>Istres City Police</b> is the first French City Police that has decided to use UAVs to help them achieve some of their missions. Live demos of these UAVs during 2 days at AeroSPI 2018.</p>	<p><b>E.4</b></p>
	<p><b>Prestans</b> is the french VIOSO distributor, the automatic warping-blending solution and uncompressed playback software. VIOSO provides both softwares and hardware for multiprojection and complex projection configurations. You can be projecting on flat, curve, cylinder, dome or any surface, Vioso allows you to realize a perfect automatic blending and then to play up to 8K uncompressed content or run your own app full screen no matter the number of image generator you have !</p>	<p><b>F.6</b></p>
	<p><b>Provence Promotion</b> is the leading agency for investments in Southern France. Aeronautics is now one of the major engines of the economy in Aix-Marseille-Provence, led by industry leaders such as Airbus Helicopters, Thales Alenia Space, Dassault Aviation, Safran Snecma, Areva TA, and Daher. The aeronautics sector in Aix-Marseille-Provence is recognized for having five areas of excellence: Helicopters; Satellites; Flight simulators and flight testing; Drones, blimps, and airships; Light aircraft and green aviation. Provence Promotion provides free and confidential support to both French and foreign companies for setting up on Marseille-Provence, an innovating ecosystem.</p>	<p><b>C.2</b></p>
	<p><b>REEL</b> Activity : Design, manufacturing, and support in services of lifting and handling critical systems for various industries. Aeronautical product &amp; services : assembly &amp; production line integrator for aircraft manufacturers and complete maintenance installations for airlines; Parts machining for aeronautics; Design, manufacturing and support of Airborne Equipment.</p>	<p><b>D.2</b></p>
	<p><b>Région SUD Provence Alpes Côte d'Azur</b></p>	<p><b>C.3</b></p>
	<p><b>SAFE</b> is an innovation cluster consisting of 450 members in the fields of Aerospace, security and safety. Our goal is to become a benchmark European cluster thanks to collaborative innovation grouping SMEs, large groups, R&amp;D labs and clusters in Europe as well as end users (Fire brigade, Air Force, civil security, etc...) SAFE Cluster members benefit from a network of experts for R&amp;D project plus market potential validation, financing, and industrial process optimization.</p>	<p><b>C.9</b></p>
	<p><b>EcASC VALABRE (Ecole d'Application de Sécurité Civile)</b> is a worldwide reference concerning the training of all people involved in Civil Security, especially when it comes to rescue techniques and natural hazards.</p>	<p><b>E.3</b></p>
	<p><b>SEMIA</b> is specialized for more than 30 years in monitoring vibrations on helicopters and propellers aircraft. The company designs and produces a complete range of vibrations GSE as well as a vibrations simulator for the training of specialists. French M.O.D. is relying on SEMIA for more than 15 years for the global logistic of its vibrations GSE.</p>	<p><b>B.7</b></p>
	<p><b>SYSTEM FACTORY</b> : the Region SUD 4.0 cluster dedicated to engineering in complex systems</p>	<p><b>C.11</b></p>
	<p><b>THALES ALENIA SPACE</b> STRATOBUS project on Pôle Aéronautique Jean Sarrail Istres</p>	<p><b>A.3</b></p>
	<p>Performance, simplicity and safety are the key words of our traceability softwares designed for the aeronautical industry. Gain visibility on all of your maintenance tasks and airworthiness tracking, with a software that adjusts to your needs and your evolution. <b>TracingFlight</b> allows you to follow and verify your workload and production capacity in real time ! Our TracingFlight© softwares are TracingNav (CAMO) - TracingLine (MRO) - TracingDocs (GED). A global solution to optimize every aspect of your trade.</p>	<p><b>B.5</b></p>
<p><b>TRANSACO</b></p>	<p>Specific Maritime Stretcher <b>TRANSACO</b></p>	<p><b>F.7</b></p>

	<p><b>TUITO</b> is a technology company specialized in the design and supply of innovative and performant video technology solutions and products for unmanned vehicles, surveillance and automotive telematics markets. TUITO is a leading provider of high-end digital video data technologies delivering intelligent video &amp; data HW &amp; SW solutions.</p>	<p><b>A.2</b></p>
	<p><b>AA'ROK</b> is a design, engineering and prototyping program office located at the Pole Aéronautique Jean Sarrail, in Istres. Part of <b>Turgis et Gaillard Industrie</b>, AA'ROK provides transversal advanced program management to the group's industrial business units and drives the development of new products. With strong expertise in the aerospace and nautical sectors, both military and civil, AA'ROK is currently spearheading disruptive solutions:</p> <ul style="list-style-type: none"> <li>• Solar-electric Boat "SUNWAVE"</li> <li>• Multipurpose Military Aircraft GSE "SEFIAM 1602e"</li> </ul>	<p><b>B.1</b></p>
	<p><b>City of Istres, France</b></p>	<p><b>C.6</b></p>
	<p><b>VSM</b> is a family SME that has been specialised in the design and manufacturing of aircraft simulators for almost 30 years. Thanks to its latest achievements coming from R&amp;D projects, the company has opened a training center in Istres with 3 top products that are implemented during the 2 days of AeroSPI 2018 :</p> <ul style="list-style-type: none"> <li>• ESTHEL : SAR and CSAR mission trainer</li> <li>• SAGOD : hardware simulator for aerial safety people (rescuers, swimmers, ...).</li> <li>• HWTC : indoor swimming pool for sea survival training, including HUET sessions.</li> </ul> <p>Main clients: French Navy, French Air Force, French Civil Security, Emergency Health, DGA Flight Test, Netherlands, Kuwait, Saudi Arabia (Air Force and Police), Switzerland</p>	<p><b>F.7</b></p>
	<p><b>WILCO INTERNATIONAL</b> designs and manufactures a great choice of optronics devices based on night vision &amp; thermal imaging technologies allowing observation, walking on foot, vehicles driving or helicopters piloting, gun firing at night or in low-visibility conditions during combat operations. WILCO INTERNATIONAL is FA527 NATO manufacturer and supplies French Armed Forces, Law Enforcement agencies, Customs and French National Agency for Wildlife. During AEROSPI, our expert team will present our latest solutions to allow interoperability between helmets and night vision goggles.</p>	<p><b>D.1</b></p>
	<p>Founded in 1999, Yuneec is a world leader in electric aviation. Rooted in a passion for innovation, Yuneec holds hundreds of patents worldwide. Its core technologies power manned aircraft as well as both consumer and commercial oriented drones. With offices in North America, Europe and Asia, Yuneec manufactures over one million units a year that accommodate a range of customers. Yuneec continues to innovate, making aerial photography attainable at any level of flight experience. The company's achievements include the introduction of the industry's first "Ready to Fly" radio controlled electric powered airplane and the design and manufacture of market-leading radio-controlled helicopters and consumer drones.</p>	<p><b>E.3</b></p>

## AIR SHOWS

- Welcome overflight by « la Patrouille de France » at 10:35 on Thursday 27th sep
- Twice a day : Helicopter-borne operations by GHSC (French Civil Security), UAV use by Istres City Police and by YUNEEC and COSMOPTER

## STATIC EXHIBITIONS (outdoor and indoor)

Mirage 2000N, UAV, BAC JET PROVOST T5-type plane, EC135 Helicopter from CFAGN (Gendarmerie Nationale) equipped with a crisis-mapping SC2 pod, 100% electric vehicle.

## WORKSHOPS ON VSM SIMULATORS

- ESTHEL : Search And Rescue (SAR) mission trainer
- SAGOD : Mobile hardware Trainer for hoisted people
- HWTC : Indoor swimming pool for HUET and sea survival training sessions.



# AeroSPI - International Air Show

## CONFERENCES

### Thursday 27 September

#### 09:00 Introduction speech

09:15 *Meaning and goals of the first International AeroSPI edition*

**Grégory GOLF** (Safe Cluster)

#### 09:15 Needs and opportunities on foreign markets

*Approach and opportunities for Central Asia Market*

**Dmitry RODIN** (Advantage Kazakhstan)  
**Jean-François BOISSON** (Artères)

10:15 *User feedback on equipment during maritime SAR operations*

**Andri JOHANNESSON** (Icelandic Coast Guard)

11:00

### Official welcoming speech

11:30

#### 13:30 Annual symposium on hoisting thematic

*Helicopter Rescue Hoist thematic and Safety Promotion supported by EASA and REEL*

**Alexander WEISSENBOEK** (Airbus Helicopters)  
**Bernd OSSWALD** (Airbus Helicopters)  
**Michel MASSON** (EASA)  
**Lionel TAUSZIG** (EASA)

15:30

#### 16:00 Training of intervention specialists : Specific needs, possible answers, role of simulation

*Safety of helicopter flights : a Review on Research*

**Fabrice CUZIEUX** (ONERA)

*Simulation in UAV training*

**Cdt Daniel-Frédéric GIGAN** (CED)

*The benefits of simulation in training*

**Marc ALBAN** (GMOUV)  
**Jean BENDIT** (VSM)

17:00

### Friday 28 September

#### 09:15 Mission performed by Airships

10:00 *Innovation and key challenges*

**André SOULAGE** (French Airship Programmes)

#### 10:30 Missions performed by UAVs : experience feedback, challenges and limits

*User's side*

**Istres City Police**

*Intermediary sized UAVs for surveillance and security : technology, issues and opportunities*

**Moustafa KASBARI** (Atechsys)

12:00 *Limits in the use of UAVs*

**Romain GILLE** (Ranc Developpement)

#### 14:00 Regional territory serving aeronautics

15:00 *Intruduction of Henri FABRE Programme*

**Stéphane MAGANA** (CCI MP)

#### 15:30 New and innovative materials and equipment for SPI missions

16:30 *Helmet / Night vision goggles interoperability during sling and hoisting operations*

**Jean-Marc WILHELM** (WILCO)