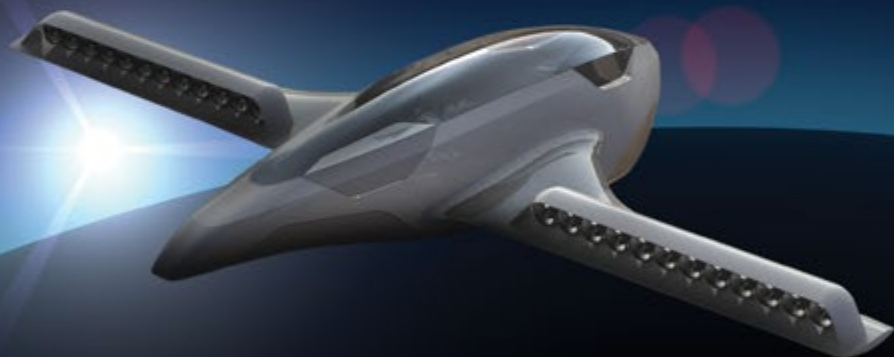




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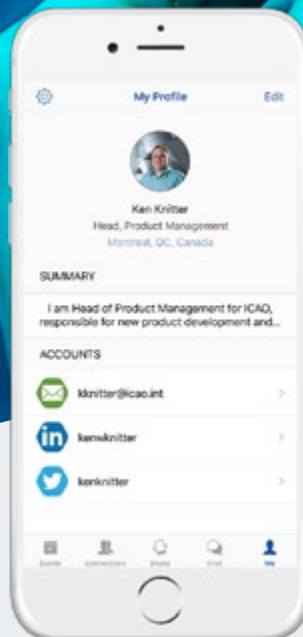
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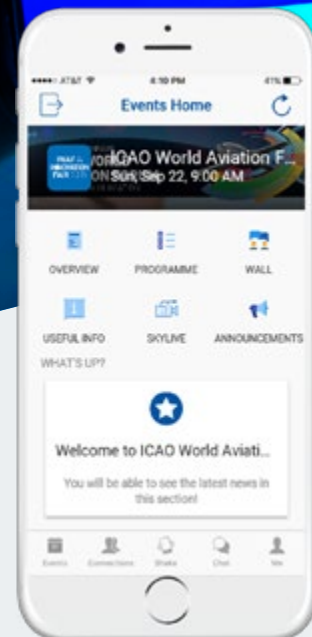
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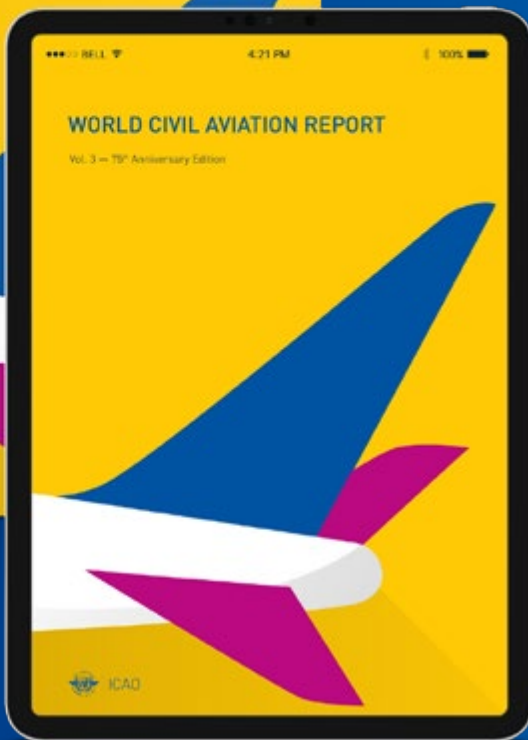
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ICA075

World Civil Aviation Report

ICAO's 75th Anniversary Edition



The Report reviews how ICAO and its Member States are tackling today's most pressing civil aviation challenges. Topics explored include the usage of **unmanned aircrafts**, **ability to continuously track commercial aircraft** over oceanic areas, **reduction of CO2 emissions** by international air transport, and many more.

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Wing: Aerial Delivery and Safe Skies.

Wing, a subsidiary of Alphabet, was created in 2012 to develop delivery by drone as a safer, faster and cleaner alternative to traditional ground delivery by car or truck. The company has developed a lightweight electric aircraft and a set of UAS Traffic Management (UTM) capabilities to deliver small packages—including food, medicine and household items—directly to homes in minutes. Since 2013, Wing has successfully completed tens of thousands of test flights, and thousands of deliveries, in North America, Europe and Australia.

Today Wing operates in Canberra, Australia and Helsinki, Finland. In 2019, Wing was granted the first FAA air carrier certificate for drone operations in the **United States**. Later this year, in partnership with the state of Virginia and Virginia Tech, Wing will begin its first commercial delivery operations in the U.S. as part of the US Department of Transportation's Integration Pilot Program.



OpenSky

In July, Wing released an OpenSky app for use by drone flyers in Australia, the first in what will be a family of OpenSky products. The app helps drone flyers to find safe areas to fly and understand regulations. OpenSky will help to lay the foundations for an ecosystem of interoperable, industry-led UAS service suppliers.

Visit us at booth 40.



Wing delivery is easy to use.

Once we're available in your community, all you need is the Wing app to enjoy delivery by air. It's similar to how you order things today, but faster and more eco-friendly.

01

Order up

Scroll through businesses in your community or search for a specific item, then place your order.

02

Now boarding

Your order is packaged with care and secured on the aircraft. Then, the best route is planned and it's ready to fly.

03

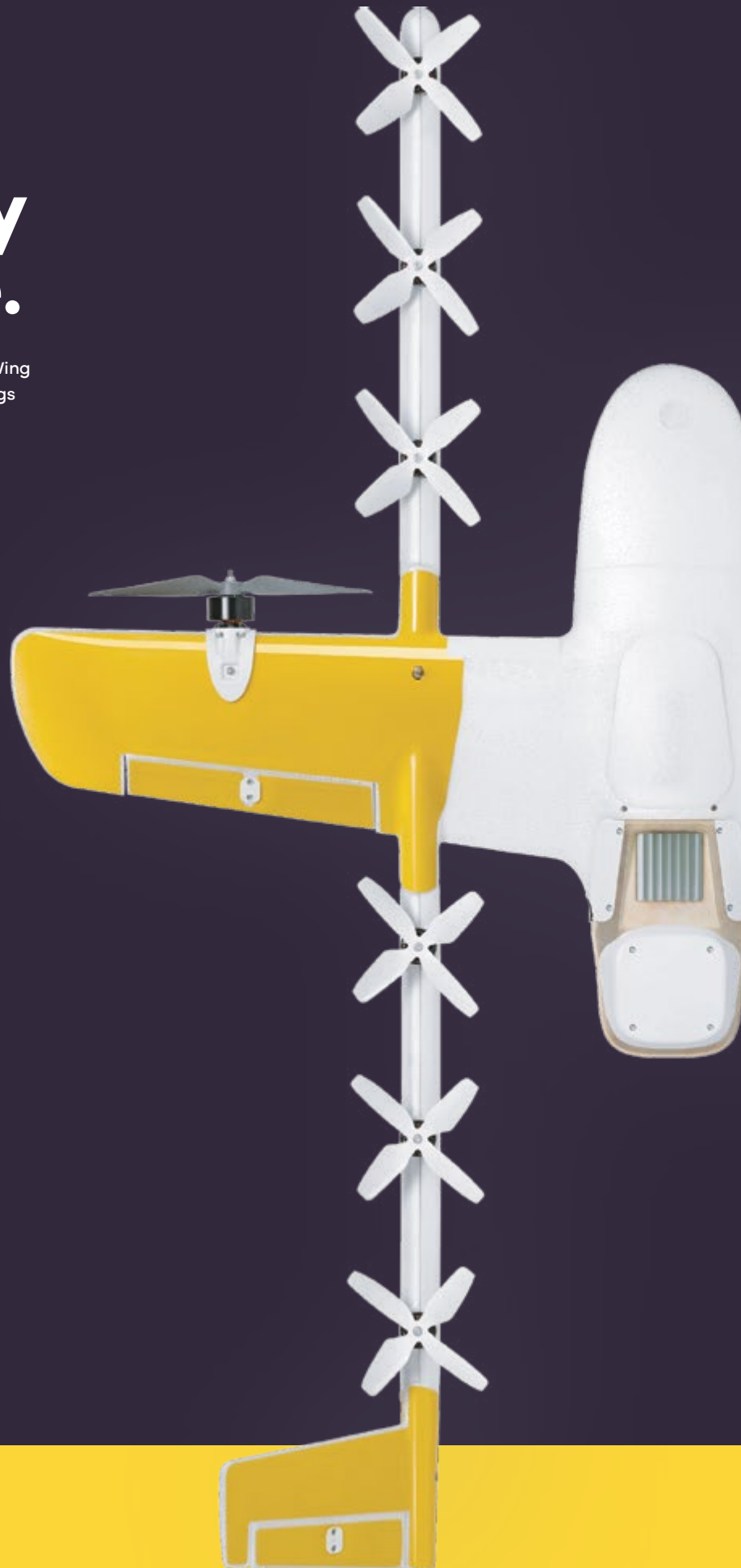
In-flight status

See where your order is and keep up to date on its arrival time, in real time.

04

Now arriving

Look for the Wing aircraft! Our aircraft gently lowers your order onto the ground via a tether. Wait until the package is fully unloaded, then unpack, and enjoy.



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ICAO WORLD AVIATION FORUM
& INNOVATION FAIR

AGENDA

INNOVATION FAIR

DAY 1 – SUNDAY, 22 SEPTEMBER 2019

08:00 – 09:00



Early Morning Coffee

Sponsored by
China Academy of Civil Aviation Science and Technology



09:00 – 09:05

Administrative Address

Master of ceremonies:
Yuri Fattah, Programme Manager – Multidisciplinary Priorities, ICAO

09:05 – 09:15

Welcome Remarks

Dr. Olumuyiwa Benard Aliu, President of the Council to ICAO

09:15 – 09:30

Harnessing The Stratosphere To Connect People Everywhere by Loon
Jennifer Miller, Director of Regulatory and Government Affairs of Loon

09:30 – 10:00

Opening of The Exhibition



Coffee Break

Sponsored by
Wing



10:00 – 11:30

Next Generation Aviation Professionals (NGAP) Youth Event

11:30 – 12:00

Presentation of Winners of The Aviation Innovation Competition

12:00 – 12:05

Welcome Message

Waj Beg, Head of Overflights

12:05 – 13:15



Lunch Break

Sponsored by
Loon



13:15 – 13:30

NEXTT Presentation

Nina Brooks, Director, Security, Facilitation and IT, Airports Council International (ACI) World and
Anne Carnall, Program Manager, IATA

Skylive

Sponsored by
ACI



13:30 – 14:30

SESSION 1: GREEN INNOVATION: ELECTRIC AIRCRAFT AND URBAN AIR MOBILITY

This panel will include leading companies in the sector of Urban Air Mobility and Electric Aircraft that are developing greener solutions for aviation while also increasing the connectivity and comfort for the passengers. The presentation will provide confidence that our sector is indeed at the precipice of a new cleaner horizon.

SPEAKERS/PANELISTS:

Bell Helicopter Textron Canada Limited – **Michel Dion**, Director – Innovation

Cartivator – **Tomohiro Fukuzawa**, Co-Representative

EHang – **Edward Xu**, CSO of EHang

Transcend Air – **Peter H. Schmidt**, Co-Founder and COO

Uber – **Mark Moore**, Head of Strategy

Lilium – **Tassilo Wanner**, VP of Global Public & Regulatory Affairs

SAF + – **Jean Paquin**, President and CEO

GDMS/Laflamme Aero – **Annu Vaidya**, the International Business Development Manager in the Air and Naval division in General Dynamics Mission Systems Canada and **Enrick Laflamme**, Co-founder and President of Laflamme Aero

Thales – **Mylene Tassy**, Director Sales & Marketing

14:30 – 14:45

Green Innovation: Presentation on SA2GE Project

Bombardier – **Fassi Kafyeke**, Ing., PhD, Senior Director, Innovation & Advanced Technologies

14:45 – 14:50

Video Presentation by Coffee Sponsor – Wing

14:50 – 15:20

**Coffee Break**

Sponsored by
Wing



15:20 – 17:00

SESSION 2: NEW TECHNOLOGIES

This panel will include a presentations of innovations in technologies that will improve all aspects of a flight. From drop-off to pick-up. From Safety, to Security to Environmental protection. The range is impressive, and virtually all parts of the aviation community has something exciting to look forward to.

SPEAKERS/PANELISTS:

Airbus – **Sandra Bour-Schaeffer**, Ho Airbus Group Demonstrators/ CEO Airbus ExO Alpha

ATR – **Zuzana Hrnkova**, VP Marketing

AENA – **Alberto Taha Barriuso**, Chief Innovation Officer

LATÉCOÈRE – **Guillaume Jaubert**, HO Innovation R&T Marketing

Imagine 4D – **Jason Radel**, Chief Scientist

Dassault Aviation – **Patrick Parnis**, Marketing Director and **Bruno Stoufflet**, Chief Technology Officer

Safran – **Valérie Guenon**, VP Environmental Policies

BlockAero – **Todd Siena**, Founder & CEO at Block Aero Technologies

Marinvent – **Phil Cole**, Vice-President, Business Development

CMC Electronics – **Claude Chidiac**, Vice President, Sales and Marketing for CMC Electronics

TeraXion – **Christine Simard**, Program Manager

Flight Data Technologies – **Natalia Bacharnicova**, President of Flight Data Technologies.

17:00 – 18:00

SESSION 3: ARTIFICIAL INTELLIGENCE

This panel will demonstrate how Artificial Intelligence has the potential to assist humans as they operate aviation. It will open our collective minds to the possibilities while giving us a good understanding of what AI can and cannot do.

SPEAKERS/PANELISTS:

Humanitas Solutions – **Abdo Shabah**, Founder
 Wiseleap – **Peter Hansen**, Vice President of Sales
 Centech – **Jean-Philip Poulin**, Corporate Innovation Manager
 CRIAQ- **Alain Aubertin**, Ph.D, President and CEO
 ASOI – **Chaïma Ben Miloud**, Head of operations
 BI Expertise – **Hobivola A. Rabearivelo**, Strategic Adviser for BI Expertise
 Searidge/NTAS – **Marco Rueckert**, Lead AI Solutions
 Thales – **Béatrice Pesquet-Popescu**, Research and Business Innovation Director

18:00 – 18:20

SESSION 4: NEW ENTRANTS, NEW CONCEPTS

This panel will include new services that are already being deployed around the world delivering everything from internet connectivity to packages. These crafts fly over and above more traditional aircraft and can inspire how the future of air traffic might be managed.

SPEAKERS/PANELISTS:

Loon – **Zohaib Mian**, Chief Systems Engineer
 Wing – **Margaret Nagle**, Head of Policy and Public Affairs
 Hybrid Air Vehicles – **Rebecca Zeitlin**, Media and Communications Manager

18:20 – 18:25

Welcome Reception & Introduction

Dr. Fang Liu, Secretary General of ICAO

18:25 – 18:35

Presentation by Reception Sponsor - Thales

Luc Lallouette, SESAR Programme Director

18:35 – 21:00

Reception

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THALES
END OF DAY 1

ICAO WORLD AVIATION FORUM DAY 2 – MONDAY, 23 SEPTEMBER 2019



08:00 – 09:00

**Early Morning Coffee**

Sponsored by
China Academy of Civil Aviation Science and Technology

09:00 – 17:30

ICAO Innovation Fair (Day 2)

Roberto Kobeh Chambers

09:00 – 09:15

IWAF/5 Opening

Dr. Olumuyiwa Benard Aliu, President of the Council to ICAO

09:15 – 10:00

Opening Plenary: Innovation for Sustainable Aviation Development

In support of ICAO's No Country Left Behind (NCLB) initiative, making frontier technologies accessible and affordable can contribute to the early realization of the United Nations (UN) Sustainable Development Goals set in the UN 2030 Agenda.

This Plenary Session is designed to provide insight on the ways innovation can be implemented for aviation development and inspire policy makers on how innovation can be embraced by governments. The high-level discussants will address measures to, inter alia, establish innovation-friendly markets; strengthen incentives for entrepreneurship; improve the likelihood of successful new business start-ups; and allow for fast deployment, diffusion and widespread use of frontier technologies.

10:00 – 10:40

Ministers' Tour of Innovation Fair

Ground floor and third floor

Coffee Break

Sponsored by
Nuctech



10:40 – 12:10

MINISTERIAL ROUNDTABLE 1**Policy and Business Models for Innovation**

Council Chambers (by invitation only)

New technological innovation such as "mobility revolution" and "sharing economy" has created disruptive effects on the market and generated benefits for wider society. The aviation industry should continue to embrace new technologies to transform ways of doing business while ensuring their safe, secure, efficient and sustainable use. The major task of governments is bringing innovation to the heart of aviation and development priorities in response to increasing complexity and rapidly changing demands by the industry and the public.

This Ministerial Roundtable will aim at developing policy frameworks and business models to support, encourage and drive technological innovation and unlock potential benefits from frontier technologies. It will also explore the possibility of leapfrogging and taking full advantage of such technologies to bridge the technological divide between developed and developing countries.

IWAF/INNOVATION FAIR WORKSHOP 1**Frontier Technologies in Aviation**

Two parallel sessions per location
Assembly Hall and Roberto Kobeh
Chambers

This hands-on interactive workshop will feature a number of presentations from entrepreneurs and leading thinkers who showcase latest successful innovation stories in aviation, urban and last-mile transportation. These case studies will shed light on the power of innovation and give attendees the confidence that such technologies can be affordable for all. The participants will be invited to share examples and best practices on cutting-edge, transformative technologies in use in aviation, as well as the benefits and challenges that accompany the deployment and transitional process of such technologies.

12:10 – 14:10

**Lunch Break**

Sponsored by
The Federal Ministry of Aviation of Nigeria



14:10 – 15:40

MINISTERIAL ROUNDTABLE 2
Innovation in Aviation Regulation and Governance

Council Chambers (by invitation only)

Technological progress is enabled through the relevant regulatory processes in each State, but government policies and practices have often not kept pace with the speed of change. The key is to establish good governance with greater coordination and communication between and across transport authorities and other ministries in charge of related portfolios, streamline decision-making among them and drive process optimization in response to technological progress.

This Ministerial Roundtable will aim at innovating legacy regulatory processes and frameworks. The topics of discussion include how States can move their regulatory processes beyond the current “catching-up” mode; how States can use latest and future technologies to improve the regulation of air transport; and how governments are taking steps to make innovation a routine and integrated practice.

IWAF/INNOVATION FAIR WORKSHOP 2
Air Transport for Today and Tomorrow

Two parallel sessions per location
Assembly Hall and Roberto Kobeh Chambers

In the air transport sector, just as in any other area of modern society, new technologies bring about new ideas, promises, expectations, ambitions and dreams.

Focusing on future air and urban mobility landscapes, entrepreneurs and leading thinkers will describe how far technological advances can go and what makes innovation an enabling technology force in aviation. The participants will be invited to exchange their ideas, discuss concepts and distinguish the realistic future of air transport from pipe dreams or fantasy.

15:40 – 16:00

**Coffee Break**

Sponsored by
Memotec



16:00 – 17:00**HIGH-LEVEL TALKS BETWEEN GOVERNMENT, INDUSTRY AND TECHNOLOGY PROVIDERS****Multi-stakeholder Cooperation for Embracing Innovation**

Policies and regulation can enable or hinder innovation and entrepreneurship. They will affect the demand for research and development (R&D), as well as the business environment and market conditions for start-ups, especially Small and Medium-sized Enterprises (SMEs). Regardless of breakthrough invention or small-scale, incremental improvements, cooperation among all stakeholders is required to identify and evaluate the effects of these new technologies, accurately estimate the future demand and costs incurred for using them, and mobilize and secure necessary resources.

Looking toward the future, this dialogue will take place to deliberate “how innovation can be used by governments to increase their efficiency and effectiveness”, “which approach should be taken to make innovation more accessible and deployable” and “what kind of policies can encourage and accelerate the pace of innovation” amongst the three participant groups, i.e. Ministers, top leaders of the industry, and technology providers. Ministers will present the outcome of the Roundtables, to which the latter two groups respond based on their experiences, short-term needs and long-term visions.

17:00 – 17:10**Issuance of Concluding Communiqué****Closing Remarks**

Dr. Fang Liu, Secretary General of ICAO

END OF DAY 2

SAVE THE DATE

2020 EVENTS ON THE HORIZON

Symposium on the Management of Change and Safety Promotion	Region (TBD)	4 th Quarter 2020 (TBD)
Sixteenth Symposium and Exhibition on Traveller Identification Programme (TRIP), MRTDs, Biometrics and Border Security (TRIP/16)	Montréal, ICAO HQ	31 March - 2 April 2020
Second ICAO Stocktaking Seminar toward the 2050 Vision for Sustainable Aviation Fuels	HQ/Region (TBD)	26 – 28 March 2020
Meeting on Assistance to Aircraft Accident Victims and their Families	Montréal, ICAO HQ	2 nd Quarter 2020 (TBD)
Aviation Data Link Symposium (ADLS): Now and Tomorrow	Montréal, ICAO HQ	2 nd Quarter 2020 (TBD)
ICAO Global Aviation Security Symposium (AVSEC2020)	Montréal, ICAO HQ	01 - 03 September 2020
Fourth Global Remotely Piloted Aircraft Systems Symposium (RPAS-Symp/4)	Montréal, ICAO HQ	14 - 16 September 2020
Fourth UAS Drone Enable Symposium (DRONEENABLE4)	Montréal, ICAO HQ	16 - 18 September 2020
ICAO/Aviation Information Sharing and Analysis Center (A-ISAC) Summit	Montréal, ICAO HQ	21 - 25 September 2020
Seminar on Environment	Montréal, ICAO HQ	13 - 16 October 2020
Third ICAO Global Air Navigation Industry Symposium (GANIS/3)	Montréal, ICAO HQ	26 - 30 October 2020
Sixth ICAO World Aviation Forum (IWAF 2020)	HQ/Region (TBD)	3 rd Quarter 2020 (TBD)
Fifth Global Coordination Meeting between PIRGs and RAGs (PIRG-RASG/5)	Montréal, ICAO HQ	4 th Quarter 2020 (TBD)
Next Generation Aviation Professionals Summit (NGAP)	Region (TBD)	4 th Quarter 2020 (TBD)
Global Aviation Training and TRAINAIR PLUS Symposium	Region (TBD)	4 th Quarter 2020 (TBD)

* All event dates are subject to change. Updated on 07 August 2019.



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Full list of upcoming events available on [icao.int/meetings](https://www.icao.int/meetings)

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**CHINA ACADEMY OF CIVIL AVIATION
CAST SCIENCE AND TECHNOLOGY**



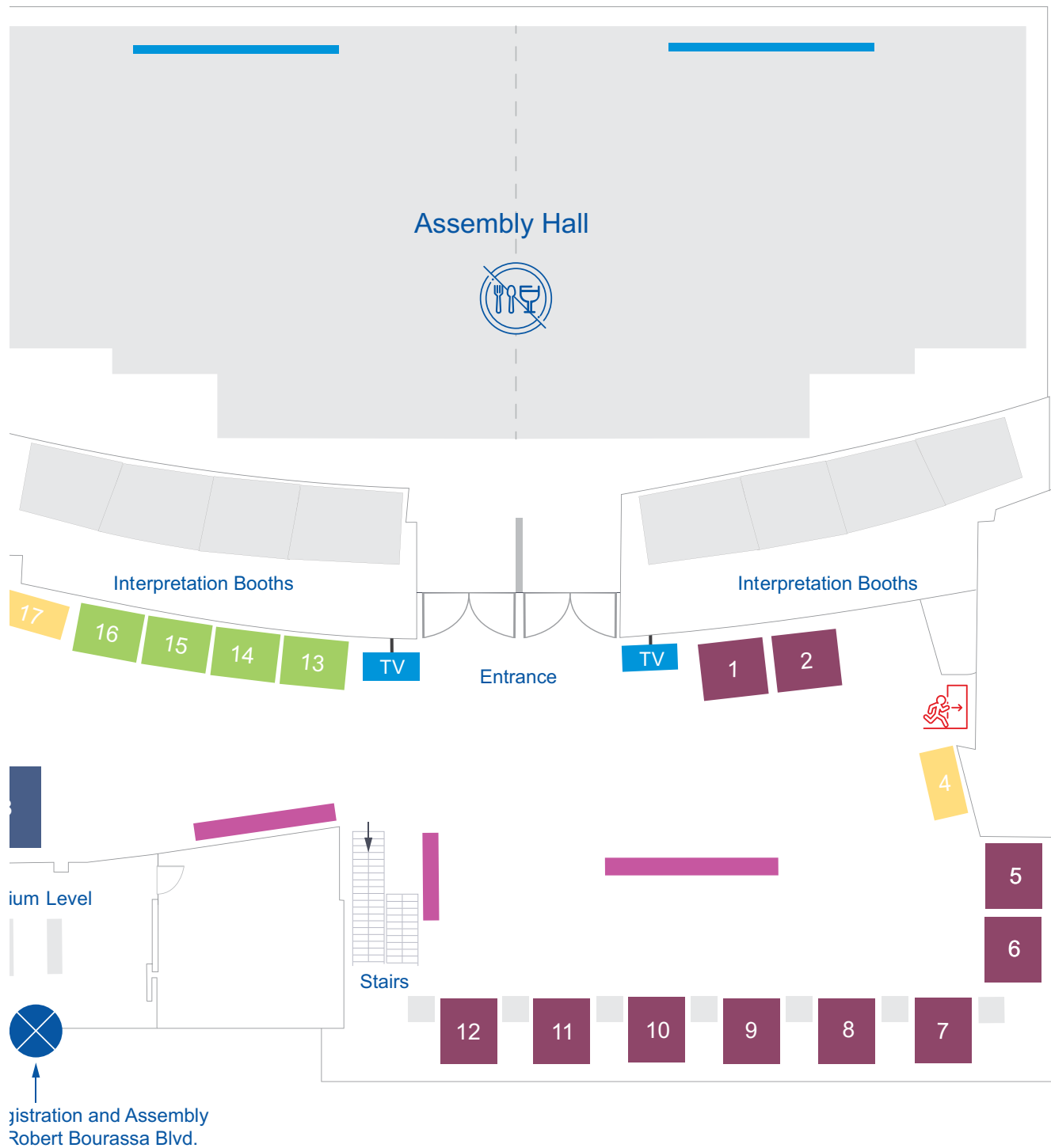
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Aviation Safety Base address: 4 weilu, Guomen Shangwu Shunyi district Beijing 100621
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Contact number: +86-010-64473193, Tel: 15901460879
E-mail: jiangyp@mail.castc.org.cn

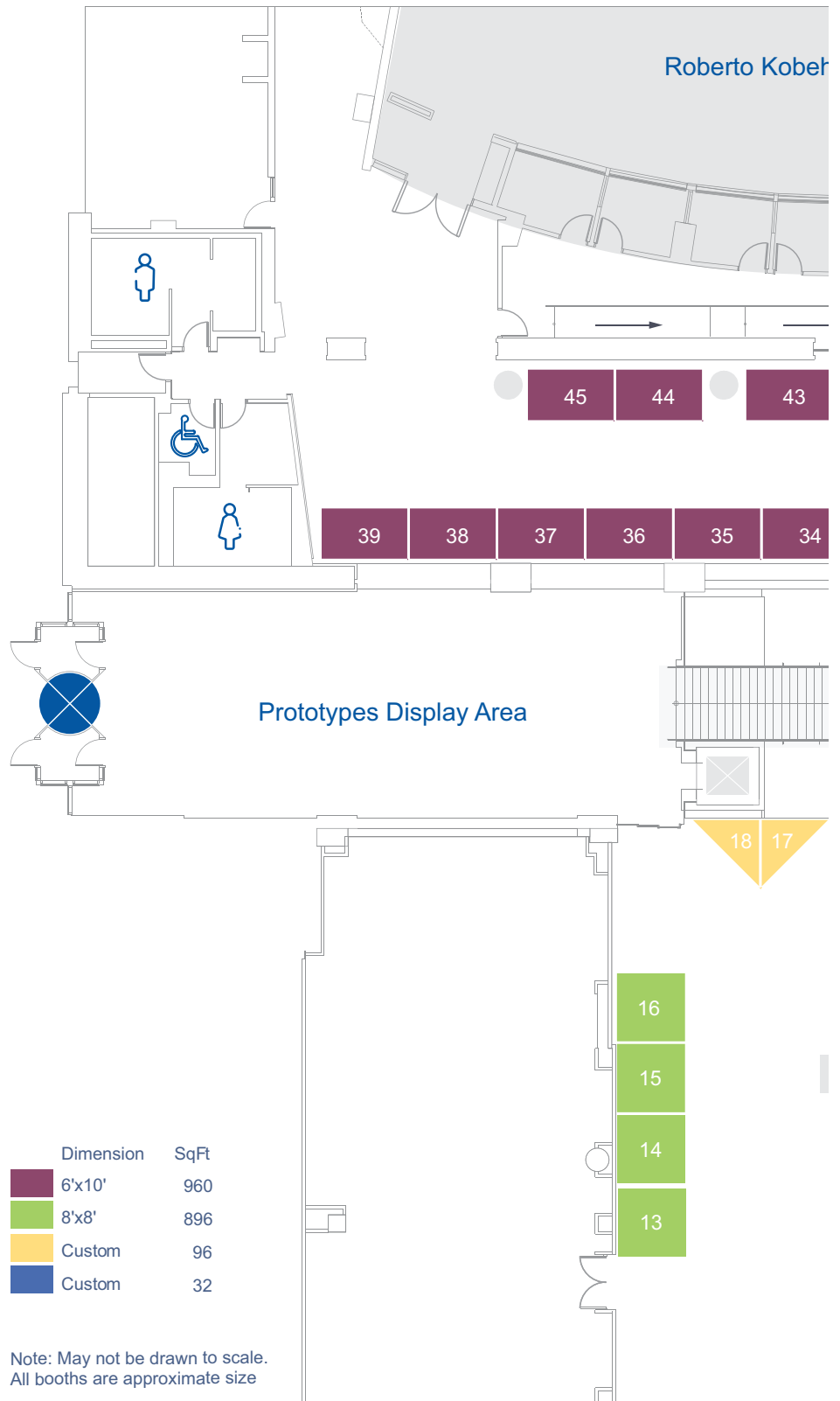
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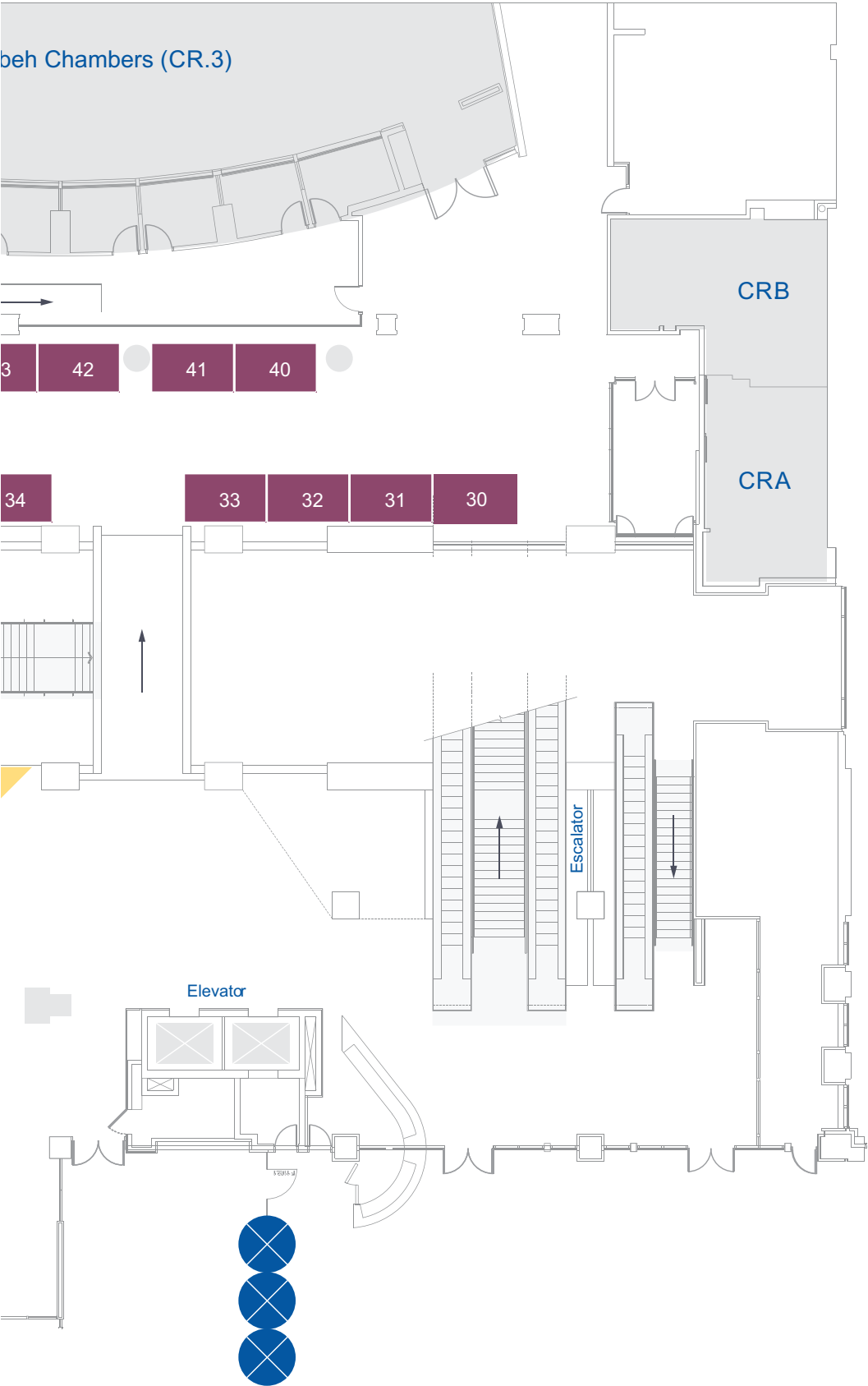
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FIRST FLOOR





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The Federal Ministry of Aviation, Nigeria	13	4
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GIFAS Pavilion - Dassault	26	4
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Québec Pavilion - Bell Textron Canada	34	1
Québec Pavilion - BI Expertise	45	1
Québec Pavilion - CMC Electronics	38	1
Québec Pavilion - Flight Data Technologies	39	1
Québec Pavilion - Humanitas	36	1
Québec Pavilion - Imagine 4D	37	1
Québec Pavilion - Laflamme Aero & General Dynamics	35	1
Québec Pavilion - Marinvent	16	4
Québec Pavilion - Notos Technologies	44	1
Québec Pavilion - SAF+	11	4
Québec Pavilion - TeraXion	10	4
Québec Pavilion - Wiseleap	15	4
Seabury Solutions	32	4
Searidge	30	4
Solace	19	4
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STR-SpeechTech	9	4
Thales	18	4
Uber	16	1
Unifly	33	1
Wing	40	1
World Area Forecast System	17	1



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The Mission underlines Qatar's contribution to international civil aviation through its permanent and effective participation in ICAO events and initiatives, and in boosting cooperation and the exchange of expertise with all Member States of the organization. The Permanent Mission of the State of Qatar to ICAO also acts as a link between the global aviation community and civil aviation entities in Qatar.



700, Rue de la Gauchetière O, suite 2450, Montréal, Québec H3B 5M2

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CONTACT

Wajahat Beg
wajahatb@loon.com



WEBSITE

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CONTACT

Nicole Schone
nschiffer@wing.com



WEBSITE

wing.com

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The people we all rely on to make air travel safe and efficient rely on Thales. Thales is a global leader in air traffic management, designing, delivering and supporting the aviation systems that keep our skies running. Our advanced technologies and ground-breaking innovations deliver solutions that are continually adapting to the ever-changing needs of the aviation industry. With engagement in all major ATM modernization initiatives, NextGen, ICAO ASBUs, and SESAR, Thales focuses on international harmonization. Our strong involvement in these initiatives, and the alignment of our product roadmaps, ensures that our solutions have been extensively tested, certified and validated.



CONTACT

Karina Groux

karina.groux@thalesgroup.com



WEBSITE

www.thalesgroup.com



EXHIBITOR
BOOTH #13



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The Federal Ministry of Aviation of Nigeria is the government body with statutory responsibility for the development and management of the nation's aviation policies as an integral part of the National Development Master Plan.



CONTACT

Mahmoud Ben Tukur
mbentukur@ncaa.gov.ng
bentukur@gmail.com

Captain Musa Nuhu
mnuhu@icao.int



EXHIBITOR
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Airports Council International (ACI), the trade association of the world's airports, was founded in 1991 with the objective of fostering cooperation among its member airports and other partners in world aviation, including the International Civil Aviation Organization, the International Air Transport Association and the Civil Air Navigation Services Organization. In representing the best interests of airports during key phases of policy development, ACI makes a significant contribution toward ensuring a global air transport system that is safe, secure, efficient and environmentally sustainable. As of January 2019, ACI serves 646 members, operating 1,960 airports in 176 countries.



CONTACT

Bojana Jeremic
mediarelations@aci.aero



WEBSITE

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BOMBARDIER



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Headquartered in Montréal, Canada, and with 31 sites including 10 service centers across 16 countries, Bombardier Aviation is powered by a proud heritage and visionary innovation in the design, manufacturing and support of business aircraft and complex aero structures. Its industry-leading, comprehensive line of business jets is the largest of any original equipment manufacturer with three leading aircraft families – Learjet*, Challenger* and Global* – allowing customers to properly manage their evolving business priorities and travel requirements. Streamlined and fully integrated, Bombardier Aviation also specializes in the superior-quality design and manufacture of complex metal and composite aircraft structures, major system components, and in delivering turnkey engineering services.



CONTACT

Leo Knaapen

leo.knaapen@aero.bombardier.com



WEBSITE

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CONTACT

Essa Al-Malki

Qatar@icao.int



WEBSITE

www.caa.gov.qa/en-us



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Block Aero's mission is to improve global safety management systems, increasing productivity and transaction efficiency across the aerospace industry.

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CONTACT

Todd Siena
todd.siena@block.aero

Lucas Pinoli
lucas.sy.pinoli@block.aero



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CONTACT

Yves Hupé
yhupé@memotec.com

Marc Beaulé
mbeaule@memotec.com



WEBSITE

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China Academy of Civil Aviation Science and Technology (CAST) is a public institution directly under the Civil Aviation Administration of China (CAAC) and a comprehensive scientific research institution approved by the Ministry of Science and Technology. It is mainly engaged in the scientific and technological research on civil aviation safety and development, providing technical support for CAAC's decision-making and supervision management, and providing technical service for civil aviation enterprises, public institutions and aviation product factories (manufacturers).



EXHIBITOR
BOOTH #2



BRONZE
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CONTACT

Yuepeng Jiang
jiangyp@mail.castc.org.cn



WEBSITE

www.castc.org.cn/



Nuctech Company Limited, derived from Tsinghua University and founded in 1997, is an advanced security & inspection solution and service supplier in the world. Relying on independent innovation and following the customers' demands, Nuctech provides the most advanced technology, superb products and integrated solutions in the security inspection industry to our customers from more than 150 countries and areas in the globe.

Covering Civil Aviation, Customs, Railway, Highway, Urban Railway, Logistics, Judiciary, Big Events and other security areas, Nuctech helps our customers in keeping homeland security and people safe, which earns us great reputation.



EXHIBITOR
BOOTH #1



BRONZE
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CONTACT

Amy Huang
huangli@nuctech.com



WEBSITE

www.nuctech.com

HYBRID Air Vehicles



CONTRIBUTOR

Founded in 2007, Hybrid Air Vehicles is the company behind the innovative Airlander hybrid aircraft. Airlander can take off and land from virtually any flat surface and offers a powerful combination of flexibility, persistence, payload capacity, and efficiency. Suitable for roles from surveillance and border patrol to search & rescue and expeditionary tourism, Airlander is an aircraft that encourages customers to Rethink the Skies and consider new approaches to solving some of the toughest challenges facing aerospace today.



CONTACT

Rebecca Zeitlin

contact@hybridairvehicles.net



WEBSITE

www.hybridairvehicles.com



EXHIBITOR
BOOTH #21

The ASI Institute (ASI-I) is an ICAO TRAINAIR PLUS Full Member. It is the aviation management competency building division of Aviation Strategies International (ASI). Our mission is to accelerate our clients' performance by providing tailored, objective and empowering services capitalizing on international best practices. ASI-I offers talent and organizational development services: competency assessment, classroom-based and online blended learning, work-based coaching and mentoring, collaborative learning.



CONTACT

Monica Tai Chew

mtaichew@aviationstrategies.aero



WEBSITE

www.aviationstrategies.aero



EXHIBITOR
BOOTH #14

GE is the world's Digital Industrial Company, transforming industry with software-defined machines and solutions that are connected, responsive and predictive. GE Aviation supports operators across the aviation ecosystem by leveraging data science, domain expertise and software capabilities, which, combined with GE's experience, increase productivity, reliability and asset utilization.



CONTACT

Bob Whetsell

bobby.whetsell@ge.com



WEBSITE

geaviation.com/digital



EXHIBITOR
BOOTH #06

Aena is the first airport operator company in the world by number of passengers. The Company manages 46 airports and 2 heliports in Spain, 6 airports in Brazil and has majority shareholding in the management of Luton Airport in the United Kingdom, and minority shareholding in 16 airports in Latin America (12 in Mexico, 2 Colombia and 2 Jamaica). Some numbers of the Company by the end of 2018: 4.201,4 million € of revenue, 280 million passengers, and 8.436 employees.



CONTACT

Pablo Lopez Loeches
pjlloeches@aena.es



WEBSITE

www.aena.es



EXHIBITOR
BOOTH #14

Aeronav specializes in Integrated Air Traffic Control (ATC) Systems, Prefabricated Control Tower Cabin, Mobile Control Towers, Ground-based Radio Navigation Aids (NavAids), Airfield Lighting Systems, Power Supply Systems and Control Tower Design. Aeronav services range from design, integration, installation, training and maintenance services to global turn-key solutions for Air Navigation Service Providers (ANSP), Aviation Organizations and Airport Authorities worldwide. All systems are commissioned in compliance with ICAO recommendations.



CONTACT

Judy Garner
jgarner@aeronavgroup.com

Benoit Couture
bcouture@aeronavgroup.com



WEBSITE

aeronavgroup.com



EXHIBITOR
BOOTH #33

Since 1976, Barrett Communications have specialised in the design and manufacturer of commercial and tactical HF and VHF radio communications systems to government, critical infrastructure, security and military markets.

Barrett Communications provides permanent and deployable ground to air solutions for civil aviation, airports, government, commercial and private organizations globally. Barrett Communications are known for developing and delivering sophisticated solutions that are intuitive and user-friendly.

Further to our competency in these solutions, we have designed and installed GMDSS ship to shore system globally and are currently developing advanced systems capabilities greater than 1000 Watts.



CONTACT

John Eschenfelder
john.e@barrettusa.com

Joe Mauro
joe.mauro@barrettusa.com



WEBSITE

barrettcommunications.com.au



EXHIBITOR
BOOTH #34

Partnering with the Federal Aviation Administration (FAA), Cobec Consulting has supported over 150 strategic acquisitions analyzing lifecycle requirements, costs, benefits, and all aspects of the deployment of new technologies into the American National Airspace.

We are aviation thought leaders in estimating the total requirements and the cost to deploy, operate, and maintain an investment into a new technology. This enables clients by protecting them from untested technologies, aggressive vendors, and unknown requirements.

We are expert negotiators and represent the FAA's interests and needs while being cognizant of their budgetary concerns, thereby ensuring they are receiving the most benefit-with the least expense.



CONTACT

Christopher R. Schmidt
cschmidt@cobec.com

Hisham Jalil
hjalil@cobec.com



WEBSITE

www.cobec.com



EXHIBITOR
BOOTH #50

Coflight Cloud Services (CCS), developed by the air navigation service providers DSNA (France) and Enav (Italy), is based on Coflight product, one of the most advanced Flight Data Processing Systems (FDPS) in Europe.

CCS allows to deliver remote flight plans for Air Traffic Management purpose thus enabling the digital sky by reducing infrastructure cost.



CONTACT

info@coflight-cloud-services.com



WEBSITE

coflight-cloud-services.com

solace.



EXHIBITOR
BOOTH #19

The Solace PubSub+ Platform is the only advanced event broker technology that supports pub/sub, queuing, request/reply, streaming and replay, and that's available as run-anywhere software, purpose-built hardware and a managed service. You can control it all through a single pane of glass and deploy it anywhere—public cloud, private cloud, no cloud.



CONTACT

Wayne Osse
Wayne.Osse@solace.com



WEBSITE

solace.com



EXHIBITOR
BOOTH #15

Drone Africa Service (D.A.S) is nigerien UAV service provider and manufacturer, developer of the survey grade of fixed wing unmanned aerial vehicles for mapping, surveying, precision agriculture, remote sensing and scouting for professionals. We are based in beautiful Niamey, Niger. Our commercial products are optimized to flight with the best in class sensors including high-resolution RGB cameras, infrared, thermal, multispectral and video surveillance cameras.

D.A.S. offers a line of 2 products (T séries) that adapt very quickly to market demands and to unique client's applications. Drone Africa Service have been used by recognized corporations, research organizations, universities and government agencies in africa a wide range of applications.

We are also supported by A.N.A.C due to her spirit of innovation.



CONTACT

Aziz Kountche
droneafricaservice@gmail.com
azizkountche@gmail.com



WEBSITE

drone-africa-service.com



EXHIBITOR
BOOTH #17

Since 1999 EMPIC have been working with a collaborative group of NAAs (30 globally) to continuously develop a suite of software tools for safety oversight management.

Thirty-plus modules cover all areas of the aviation regulator's remit grouped under Personnel Licensing, Organisation Approval, Technical Areas (type certification, aircraft registry etc.), plus Central Modules managing security, reporting, contact

management and a Surveillance Layer for regulations, audits, findings etc. The most recent extension covers Risk and Performance Based Oversight.

EMPIC® offer extensive interface possibilities including to archiving, document management, examination and ERP-systems, the ECCAIRS occurrence tool, and provides self-service access to stakeholders via a web client.



CONTACT

Jörg Kottenbrink
joerg.kottenbrink@empic.aero



WEBSITE

www.empic.aero



EXHIBITOR
BOOTH #05

Esri, the global market leader in geographic information system (GIS) software, location intelligence, and mapping, provides solutions for aviation, airports and charting. Leverage your authoritative aviation information to support informed decision making. Cost effectively manage your airport infrastructure. Accurately manage aeronautical information to support data driven charting and obstacle evaluation and analysis. Come to the Esri booth to see how GIS enables ICAO member states.



CONTACT

Mark Cygan
mcygan@esri.com



WEBSITE

www.esri.com



EXHIBITOR
BOOTH #08

Our mission is to represent, lead and serve the airline industry. Our vision is to work together to shape the future growth of a safe, secure and sustainable air transport industry that connects and enriches the world. We improve understanding of the air economies. We advocate for the interests of airlines across the globe and for over 70 years, we have deployed global commercial standards upon which the air transport industry is built. Our aim is to assist airlines by simplifying processes and increasing passenger convenience while reducing costs and improving efficiency. We help airlines to operate safely, securely, efficiently, and economically under clearly defined rules. We also provide professional support to all industry stakeholders with a wide range of products and expert services.



CONTACT

Michael Comber
comberm@iata.org



WEBSITE

www.iata.org



GIFAS (the French Aerospace Industries Association) – created in 1908 – is an industry body that brings together 400 companies ranging from the main prime contractors and system suppliers to SMEs. They form a cohesive, supportive and hard-driving high-technology sector specializing in the design, development, construction, marketing and maintenance of all aeronautical and space programmes and equipment, both civilian and military: planes, helicopters, drones, engines and missiles, satellites and space launchers, major systems and equipment, defence and security systems, associated subassemblies and software.



PART OF
GIFAS PAVILION



EXHIBITOR BOOTH
#25 to 29



CONTACT

Elisabeth Dallo
elisabeth.dallo@gifas.fr



WEBSITE

www.gifas.fr

AIRBUS

Airbus is a global leader in aeronautics, space and related services. In 2018 it generated revenues of €64 billion and employed a workforce of around 134,000. Airbus offers the most comprehensive range of passenger airliners. Airbus is also a European leader providing tanker, combat, transport and mission aircraft, as well as one of the world's leading space companies. In helicopters, Airbus provides the most efficient civil and military rotorcraft solutions worldwide.



PART OF
GIFAS PAVILION



EXHIBITOR
BOOTH #28



CONTACT

Pierre Cardin
pierre.cardin@airbus.com

Elisabeth Gautier
elisabeth.gautier@airbus.com



WEBSITE

www.airbus.com



ATR is the world number one regional aircraft manufacturer with its ATR 42 and 72 the best-selling aircraft in the less than 90-seat market segment. In 2018 the company had a turnover of US\$1.8 billion. The unifying vision of the company's 1,400 employees is to help everyone connect and develop in a responsible manner. Thanks to the efficiency of turboprop technology and the company's focus on continuous innovation, ATRs burn 40% less fuel and emit 40% less CO2 than regional jets. They have been chosen by some 200 companies in 100 countries. ATR is a joint-venture between Airbus and Leonardo.



PART OF
GIFA PAVILION



EXHIBITOR
BOOTH #25



CONTACT

Zuzana Hrnkova
zuzana.hrnkova@atr-aircraft.com

Solène Flahault
solene.flahault@atr-aircraft.com



WEBSITE

www.atr-aircraft.com
www.atr-intolife.com



With over 10,000 military and civil aircraft delivered in more than 90 countries over the last century, Dassault Aviation has built up expertise recognized worldwide in the design, development, sale and support of all types of aircraft, from the Rafale fighter, to the high-end Falcon family of business jets, military drones and space systems. In 2018, Dassault Aviation reported revenues of €5.1 billion. The company has 11,500 employees.



PART OF
GIFA PAVILION



EXHIBITOR
BOOTH #26



CONTACT

Stéphane Fort
stephane.fort@dassault-aviation.com



WEBSITE

www.dassault-aviation.com

LATÉCOÈRE

With 100 years of experience in the aerospace industry, LATÉCOÈRE is a leader in the field of aerostructures and interconnection systems:

- The world leader in avionics racks,
- The European leader in satellite wiring,
- The world's leading independent manufacturer of aircraft doors,
- Second in the world for electrical harnesses.

A major player in the aerospace industry, Group LATÉCOÈRE stands out for its ability to innovate. Drawing on its unique and world-recognized expertise, LATÉCOÈRE works across the entire value chain. Design, manufacturing, assembly, installation and MRO: LATÉCOÈRE aims for excellence and performance across the board.



PART OF
GIFAS PAVILION



EXHIBITOR
BOOTH #27



CONTACT

Guillaume Jaubert

guillaume.jaubert@latecoere.aero

Dimitri Gauthier-Arapoglou

dimitri.arapoglou@latecoere.aero



WEBSITE

www.latecoere.aero



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GIFAS PAVILION



EXHIBITOR
BOOTH #29

Safran is an international high-technology group, operating in the aviation (propulsion, equipment and interiors), defense and space markets. Safran has a global presence, with more than 92,000 employees and sales of 21 billion euros in 2018. Working alone or in partnership, Safran holds world or European leadership positions in its core markets. Safran undertakes Research & Development programs to meet fast-changing market requirements, with total R&D expenditures of around 1.5 billion euros in 2018.



CONTACT

Valérie Guenon

valerie.guenon@safrangroup.com



WEBSITE

www.safran-group.com



Incheon Airport

Incheon International airport is one of major hub airport in the Northeast Asia with opening of Terminal 2, Handling 500,000 flights, 72 Million passengers and 5 Million tons of cargo a year. Incheon International airport is currently carrying out its *phase 4 construction that includes the expansion of Terminal 2 and the construction of the 4th runway by 2023 in order to accommodate 100 million passengers a year.

*Phase 4 construction: project period_Nov 2017~Dec 2023. Project cost KRW 4.2trillion.



EXHIBITOR
BOOTH #31-32



CONTACT

Yoonsub Kim
kys0946@airport.kr



WEBSITE

www.airport.kr



EXHIBITOR
BOOTH #17

The World Area Forecast System is provided by World Area Forecast Centres (WAFCs) London and Washington. The two WAFCs collaborate to provide global forecasts of winds, temperatures, relative humidity, turbulence, icing and thunderstorms on behalf of ICAO. As part of their respective National Meteorological Services (The United Kingdom Met Office and the United States National Atmospheric and Oceanic Administration), the two centres focus on delivering scientific research through to national and international operational services. They are currently implementing significant scientific improvements to their forecasting services.



CONTACT

Karen Shorey
SADISmanager@metoffice.gov.uk

Matt Strahan
matt.strahan@noaa.gov



WEBSITE

www.metoffice.gov.uk/services/transport/aviation/regulated

www.aviationweather.gov



EXHIBITOR
BOOTH #31

NATS is a leading air traffic management and solutions company, established in the UK in 1962 and now operating in countries around the world.

NATS handled 2.6 million flights in 2018, covering the UK and eastern North Atlantic from its centres at Swanwick, Hampshire and Prestwick, Ayrshire. NATS also provides air traffic services at 13 UK airports; at Gibraltar Airport and, in a joint venture with Ferrovial, at a number of airport towers in Spain.

Building on its reputation for operational excellence and innovation, NATS offers aerodrome, data, engineering, capacity, efficiency and environmental performance solutions to customers worldwide, including airports, airlines air traffic service providers and Governments.



CONTACT

Jonathan Palk
jonathan.palk@nats.co.uk



WEBSITE

www.nats.aero



EXHIBITOR
BOOTH #20

Neste is the world's largest producer of renewable diesel and renewable jet fuel refined from waste and residues. In 2019, Neste was recognized as the 3rd most sustainable company in the world. Our purpose is to create a healthier planet for our children by providing aviation stakeholders with responsible choices. Neste's Renewable Aviation is working with key aviation stakeholders in introducing and supporting the usage of renewable solutions in aviation. Visit us at www.decarbonizingaviation.com



CONTACT

Sami Jauhiainen
sami.jauhiainen@neste.com



WEBSITE

www.neste.com



PART OF
QUÉBEC PAVILION



EXHIBITOR BOOTH
#42 - 43

The Ministry's mission is to support business growth, entrepreneurship, science, innovation, export trade and investment. The MEI is coordinating the elaboration and the implementation of the digital strategy.

It also advises the Government with a view to favouring economic development in every region of Québec, in a perspective of:

- job creation;
- economic prosperity;
- sustainable development.



CONTACT

Carmen Marcu

Carmen.marcu@economie.gouv.qc.ca



WEBSITE

www.quebec.ca/en/government/ministere/economie/mission/



Grappe aérospatiale du Québec
Québec's Aerospace Cluster

Created in 2006, Aéro Montréal is a strategic think tank that groups all the major decision makers in Quebec's aerospace sector, including companies, educational and research institutions, associations and unions.

Aéro Montréal's mission is to mobilize stakeholders in Québec's aerospace ecosystem to support its global reach, innovation capacity and growth. Its vision is to become the most innovative aerospace cluster in the world.

To reach this goal, Aéro Montréal is based on the following values: excellence, commitment, collaboration, agility and audacity.



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EXHIBITOR BOOTH
#42-43



CONTACT

Anouk Wawrzyniak

anouk.wawrzyniak@aeromontreal.ca



WEBSITE

www.aeromontreal.ca



Airside Safety Operations International (ASOI) is a company that specializes in the management, supervision, planning and certification of airside operations and facilities, with a particular emphasis on ensuring safety, risk management and compliance with international standards and national civil aviation regulations.

ASOI provides technical resources, experts, systems and procedures for the operation, inspection and maintenance of airside operations. Our procedures are built around our proprietary reporting systems, inspection reports, forms and timely deployment of equipment, offering our clients a high level of confidence in operating, inspecting and maintaining key airport facilities in compliance with international and domestic regulations.



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EXHIBITOR
BOOTH #12



CONTACT

Chaïma Ben Miloud

Chaïma.benmiloud@airsideso.com



WEBSITE

www.airsidesafetyoperations.com



Thinking above and beyond is what we do. For more than 80 years, we've been reimagining the experience of flight – and where it can take us.

We are pioneers. We were the first to break the sound barrier and to certify a commercial helicopter. We were aboard NASA's first lunar mission and brought advanced tiltrotor systems to market. Today, we're defining the future of on-demand mobility.

Headquartered in Fort Worth, Texas – as a wholly-owned subsidiary of Textron Inc., – we have strategic locations around the globe.

Above all, our breakthrough innovations deliver exceptional experiences to our customers. Efficiently. Reliably. And always, with safety at the forefront.



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EXHIBITOR
BOOTH #34



CONTACT

Michel Dion
mdion@bellflight.com



WEBSITE

www.bellflight.com



BI Expertise

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At BI Expertise, we make the transformation towards Industry 4.0 accessible to organisations of all sizes. We support your organisation in integrating artificial intelligence and cloud technologies to help you propel your innovation and prepare tomorrow's business.

Our multidisciplinary team has developed a complete offering of services to help you meet your challenges related to digital transformation strategy as well as to transition to the cloud and maximise your exploration of the potential of big data with machine learning solutions.

At BI Expertise, we work closely together for you to achieve a sustainable advantage.



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EXHIBITOR
BOOTH #45



CONTACT

Youssef Loudiyi,
youssef.loudiyi@biexpertise.com



WEBSITE

www.biexpertise.com

BOMBARDIER

Headquartered in Montréal, Canada, and with 31 sites including 10 service centers across 16 countries, Bombardier Aviation is powered by a proud heritage and visionary innovation in the design, manufacturing and support of business aircraft and complex aero structures. Its industry-leading, comprehensive line of business jets is the largest of any original equipment manufacturer with three leading aircraft families – Learjet*, Challenger* and Global* – allowing customers to properly manage their evolving business priorities and travel requirements. Streamlined and fully integrated, Bombardier Aviation also specializes in the superior-quality design and manufacture of complex metal and composite aircraft structures, major system components, and in delivering turnkey engineering services.



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EXHIBITOR BOOTH
#42-43



CONTACT

Fassi Kafyeke

fassi.kafyeke@aero.bombardier.com



WEBSITE

www.bombardier.com/en/aviation.html



CAE was founded in 1947 and is headquartered in Canada. With customers in more than 190 countries, CAE has the broadest global reach of any simulation, training equipment and services company on the market. CAE is a global leader in training for the civil aviation, defence and security, and healthcare markets. Backed by a 70-year record of industry firsts, we continue to help define global training standards with our innovative virtual-to-live training solutions to make flying safer, maintain defence forces readiness and enhance patient safety. We have the broadest global presence in the industry, with over 10,000 employees, 160 sites and training locations in over 35 countries. Each year, we train more than 220,000 civil and defence crewmembers, including more than 135,000 pilots, and thousands of healthcare professionals worldwide.



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EXHIBITOR BOOTH
#42-43



CONTACT

Marc St-Hilaire

marc.sthilaire@cae.com



WEBSITE

www.cae.com



Created in 1996 by the École de Technologie Supérieure, and located in the heart of Montréal's Quartier de l'innovation, CENTECH is a tech entrepreneurial centre dedicated to technology companies with high growth potential. Recognized by UBI Global as one of the world's most effective accelerators, CENTECH acts as a veritable growth machine. It has created one of the greatest densities of high-level tech entrepreneurs in Canada. Furthermore, Centech is now offering open innovation cells to corporations that can integrate major corporations and companies seeking to design new products and give them an opportunity to benefit from the agility of start-ups and from Centech's entrepreneurial ecosystem.



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EXHIBITOR BOOTH
#42-43



CONTACT

Julian Lucchesi
Julian.Lucchesi@etsmtl.ca



WEBSITE

[wwwcentech.co](http://www.centech.co)



CMC Electronics has achieved an international reputation for innovation and excellence in the design and manufacture of cutting-edge cockpit systems integration and avionics solutions for the military and commercial aviation markets. Based in Montréal, Canada, the company has facilities in Canada and in the USA serving its customers worldwide.



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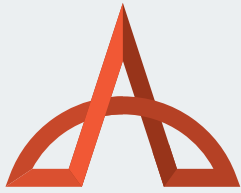
CONTACT

Eric Totouom,
Eric.Totouom@CMCElectronics.ca



WEBSITE

www.cmcelectronics.ca

**C R I A Q**CONSORTIUM DE RECHERCHE ET
D'INNOVATION EN AÉROSPATIALE
AU QUÉBEC

The Consortium for Research and Innovation in Aerospace in Québec (CRIAQ), is a non-profit organization established in 2002 with the financial support of the Québec government. Its mission is to increase the competitiveness of the aerospace industry, and enhance the collective knowledge base in aerospace through improved education and training of students.

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QUÉBEC PAVILIONEXHIBITOR BOOTH
#42-43**CONTACT****Alain Aubertin**

alain.aubertin@criaq.aero

**WEBSITE**

www.criaq.aero



Flight Data Technologies Inc. (FDT) - is a developer and manufacturer of aviation safety-related systems and products with more than 35 years of experience. Our offices are presented worldwide, with HQ in Montréal, Canada. The company's area of expertise is avionics products, aircraft communication, Flight Data Transmission, Processing and Analysis, Investigation Management Systems for aviation authorities, airlines and manufacturers. We also offer a lower airspace monitoring system, capable to detect flying manned and unmanned aerial vehicles.

PART OF
QUÉBEC PAVILIONEXHIBITOR
BOOTH #39**CONTACT****Natalia Bacharnicova**

nbacharnicova@flightdatatech.com

**WEBSITE**

www.flightdatatech.com

GENERAL DYNAMICS

Mission Systems

General Dynamics Mission Systems–Canada is one of Canada’s leading C4ISR defence and security companies with a worldwide reputation for excellence in the production of integrated solutions for land, airborne, maritime and public safety applications. Determined to move the needle on defence innovation, we are also supporting advances in manned-unmanned operations, autonomy, network security and human-machine collaboration in common mission management systems. We are proud to provide an engaging workplace for employees in Calgary, Halifax, and Ottawa.



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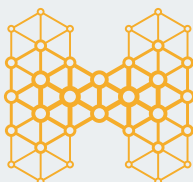
CONTACT

Annu Dhanda Vaidya
Annu.Vaidya@gd-ms.ca



WEBSITE

www.gdmissionsystems.ca



HUMANITAS

INNOVATIVE TECHNOLOGY
FOR EMERGENCY RESPONSE

As a young, award-winning innovator based in Montréal, Humanitas is a multidisciplinary team of programmers, roboticists, networking specialists and researchers offering innovative technologies in hyper-resilient telecommunications, UAV, AI, advanced visualization (AR & VR), simulation, and distributed edge computing. Its technology helps provide broader situational awareness to mission-critical professionals. Successfully mobilized world-class industrial and academic partners, including Dassault Systemes, Thales, CAE, Synopsys, Bell Helicopter, Presagis, McGill, Polytechnique Montréal, HEC Montréal, Carleton, Concordia, INRS and more, the team is leading a collaborative R&D project funded at CA\$10M to develop autonomous and off-the-grid technologies of the next generation.



PART OF
QUÉBEC PAVILION



EXHIBITOR
BOOTH #36



CONTACT

Abdo Shabah
abdo.shabah@humanitas.io



WEBSITE

www.humanitas.io



IMAGINE 4D

Imagine 4D is a company specialising in the commercialisation of state-of-the-art immersive visual systems, including Station IX (www.stationix.com), the most realistic commercially-available immersive environment. Imagine 4D also develops immersive solutions as well as 3D contents for vocational training. The company serves customers in the multiple sectors including Aerospace, Power Generation, Architecture, Engineering and Construction.



PART OF
QUÉBEC PAVILION



EXHIBITOR
BOOTH #37



CONTACT

Christian Bassila
cbassila@imagine-4d.com



WEBSITE

www.imagine-4d.com



LAFLAMME A É R O

LAFLAMME AÉRO is manufacturing the LX300™, a customizable unmanned helicopter. The LX300™ is a reliable certified-class VTOL featuring a state-of-the-art design offering 90 kg of payload capacity. With its tandem-rotor configuration and its unique capabilities, the LX300™ is the best suited UAV for commercial and military applications.

The LX300™ is mid-sized helicopter designed with a certified engine offering both robustness and economy. Designed to be overhauled at every 2,000 hours, the LAFLAMME AÉRO's remotely piloted helicopter system is offering the best performances with the best operating costs of its class.



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QUÉBEC PAVILION



EXHIBITOR
BOOTH #35



CONTACT

Enrick Laflamme,
enrick@laflamme.aero



WEBSITE

www.laflamme.aero



Marinvent provides consulting, services, training, tools and IP to reduce customers' program/product risk, cost and schedule and to help them innovate quickly. Its engineers, experience, TCCA DARs, flying avionics test bed, research simulator and IP make it a reliable and trusted partner for the planning and management of projects, regardless of size and complexity. One of Marinvent's key values is its independence, which proves invaluable in helping customers to make informed and impartial product and acquisition decisions based upon an objective assessment of operational and performance requirements through application of proven methods and tools.



PART OF
QUÉBEC PAVILION



EXHIBITOR
BOOTH #16



CONTACT

Philip Cole
phil.cole@marinvent.com



WEBSITE

www.marinvent.com



Notos Technologies has the first complete system to enable autonomous soaring by generating a dynamic map of lift sources (thermals) in the atmosphere, and uses this map for online flight planning and decision making. Notos technologies system keeps commercial fixed wing drones in the air without using a motor, by autonomously finding and catching rides on naturally occurring thermals, similar to how birds stay aloft.



PART OF
QUÉBEC PAVILION



EXHIBITOR
BOOTH #44



CONTACT

Saran M Toure
saran.toure@notostechnologies.com



WEBSITE

www.notostechnologies.com



SAF+ Consortium brings together companies spanning the aviation value chain. By converting CO₂ captured from industrial flue gas into hydrocarbons using renewable electricity, the project will yield a Sustainable Aviation Fuel (SAF) with 80% lower lifecycle GHG emissions than fossil fuels while being cost-competitive with other SAFs. Tackling both CO₂ emissions reduction and SAF availability requirements, the project will help airlines meet CORSIA requirements and their sustainability goals. The ongoing demonstration phase is aimed at de-risking and optimizing technological and business models for commercialization of a production facility able to steadily supply to the North American East Coast by 2025.



PART OF
QUÉBEC PAVILION



EXHIBITOR
BOOTH #11

**CONTACT**

Jean Paquin

jean@safplusconsortium.com

**WEBSITE**

www.safplusconsortium.com

TeraXion

TeraXion is a leader in the manufacturing of innovative photonic components that incorporate fiber Bragg gratings, low noise lasers and integrated photonics. Its unique expertise and its ability to develop and transform technology into leading-edge product make it a prime partner for its clients: key companies in light and heavy manufacturing, telecommunications, medical equipment, aerospace and defence. For further information, please visit teraxion.com.



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BOOTH #10

**CONTACT**

Christine Simard

csimard@teraxion.com

**WEBSITE**

www.teraxion.com



Thales Canada's Aerospace Division designs and integrates avionics suites, flight controls, head worn displays, satellite communication systems, electrical systems and other innovative avionics concepts for regional and business aircraft customers around the world.

A leading investor in research and development in Canada and home to one of five global research and technology centres, Thales Canada employs more than 2,000 skilled people located coast-to-coast. With revenues of over \$850 million, Thales Canada offers leading capabilities in the urban rail, civil aviation, defence, digital identity and security sectors, meeting the most complex needs and requirements of its customers across all operating environments.



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EXHIBITOR BOOTH
#42 - 43



CONTACT

Jean-Marc Gagné,
jean-marc.gagne@ca.thalesgroup.com



WEBSITE

www.thalesgroup.com



Founded in 2005 and based in Montréal, Wiseleap's suite of software helps ground handlers, airlines, and airports improve operational efficiency using our ground handling products.

Our aviation products leverage the latest web technologies combined with our years of experience and intimate knowledge of the commercial aviation industry. Whether ground handling, training, equipment or deicing operations, we customize each of these products to the unique needs of your operation - with access to real time relevant information - to better handle challenges and be more efficient in the decision-making process.

Wiseleap is now part of the EMYODE Company.



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EXHIBITOR
BOOTH #15



CONTACT

Peter Hansen
peter.hansen@emyode.com



WEBSITE

www.wiseleap.com



EXHIBITOR
BOOTH #32

Seabury Solutions is a leading global aviation software development and consultancy company. It was established in 2002 and forms part of the Seabury Capital. Seabury Solutions has built its reputation in the market by delivering world class aviation IT solutions from the smallest operator to the largest airlines across the world. We have built upon our decades of aviation expertise in-house, to leverage this knowledge into a suite of products that enhance the decision making process for Airlines, Regulators and MROs.



CONTACT

Bruce Gowling
bgowling@seaburysolutions.com



WEBSITE

www.seaburysolutions.com



EXHIBITOR
BOOTH #30

Join Searidge Technologies and NATS at stand 30 as we showcase our Heathrow Airport Digital Tower, including HD 4K video and state-of-the-art AI and machine learning technology. We will demonstrate the benefits of the technology to improve efficiency, weather resilience and contingency operations at one of the world's busiest airports. You will also learn how the capabilities of AI can improve the airport's landing capacity in times of low visibility and improve punctuality.



CONTACT

Sheri Bailey
sheri@searidgetech.com



WEBSITE

www.searidgetech.com



EXHIBITOR
BOOTH #18

SAM is an international platform of worldwide experts in aeronautics who works on the design and implementation of Aviation Master Plans for States, according to their specific needs.

- We provide advice and support to States Civil Aviation Authorities (CAA) in the design and implementation of their aviation master plans, ensuring articulation with the corresponding national development plans;
- We ensure the aviation master plans fulfill ICAO's recommendations and best practices, as well as the global plans;
- We support States in achieving political will for the management of master plans and the allocation of resources for their implementation.



CONTACT

Rodrigo Escobar

rescobar@strategicaeronauticalmanagement.com
info@strategicaeronauticalmanagement.com



WEBSITE

www.strategicaeronauticalmanagement.com



EXHIBITOR
BOOTH #09

STR-SpeechTech Ltd. (STR) is a leading Canadian supplier of text-to-speech systems for mission-critical broadcasting applications and has produced quality speech and signal processing products for over 30 years that adhere to ICAO and WMO standards. Our StarCaster® D-ATIS and D-VOLMET systems are deployed at ATC Towers and Flight Service Stations, where the ability to generate clear and consistent aviation information broadcasts is key for operational efficiency and safety. STR is proud to have almost 300 StarCaster systems deployed internationally, including in North America at facilities managed by the FAA, US Air Force, US Army, US Coast Guard and NAV CANADA.



CONTACT

Dan Wilson

info@speechtech.com



WEBSITE

www.speechtech.com



EXHIBITOR
BOOTH #16

Uber is developing shared air transportation—planned for 2023—between suburbs and cities, and ultimately within cities. We’re working with our Elevate Network partners to launch fleets of small, electric VTOL (vertical takeoff and landing) aircraft in Dallas, Los Angeles, and our first international market in Melbourne. Uber was founded with a simple vision: tap a button, get a ride. We’ve since evolved into a transportation network that helps you get from point A to point B by car, bike, scooter, and public transit—and, in the not-so-distant future, flights. Uber Air is our most ambitious vision for that future.

**CONTACT**

Olivia Kristiansen
oliviak@uber.com

**WEBSITE**

uber.com/air



EXHIBITOR
BOOTH #33

Unifly is the global leader in Unmanned Traffic Management (UTM).

Unifly’s technology connects official entities with operators to integrate drones into the airspace safely and securely. It includes flight planning, airspace approval, live tracking, dynamic situational awareness and BLIP, an electronic “license plate” for drones. Flight details such as the exact location, destination, altitude and purpose of the flight are fed into the central platform via the mobile network.

This makes it possible to not only follow the drones in real-time, but also to determine who is flying where and whether they are supposed to be there.

**CONTACT**

info@unifly.aero

**WEBSITE**

www.unifly.aero

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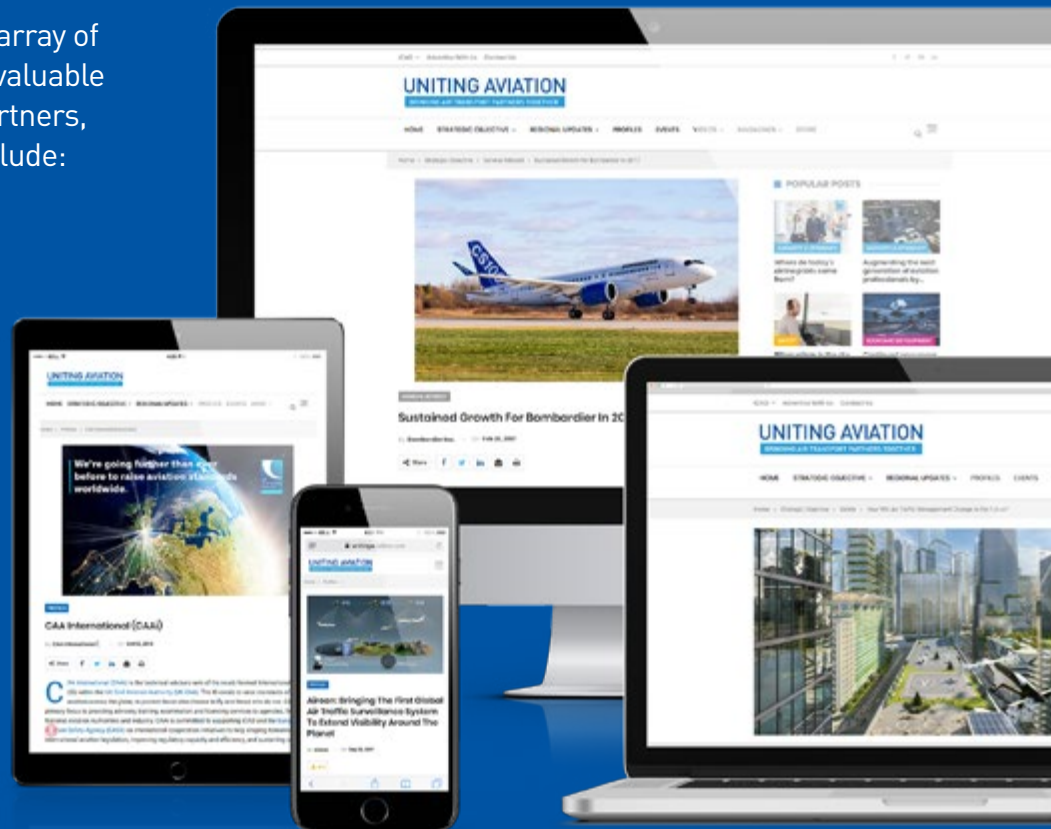
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