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THIRD DRONE ENABLE SYMPOSIUM 2019

ICAO Headquarters, Montréal, Canada | 12 - 14 November 2019

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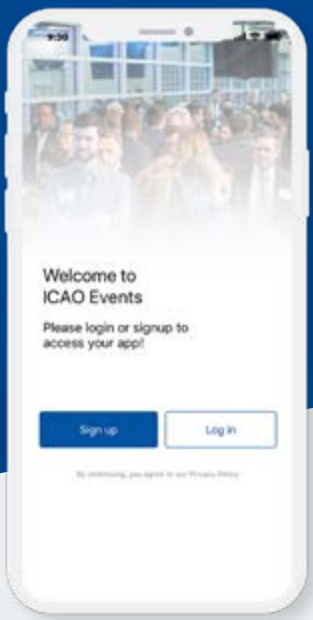

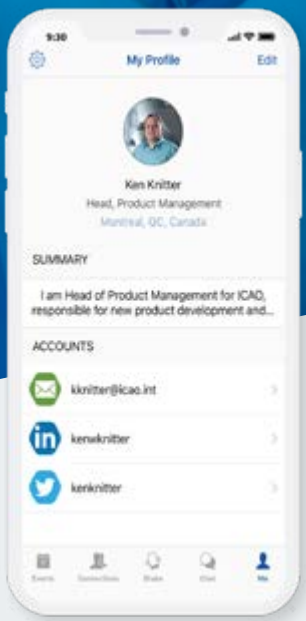

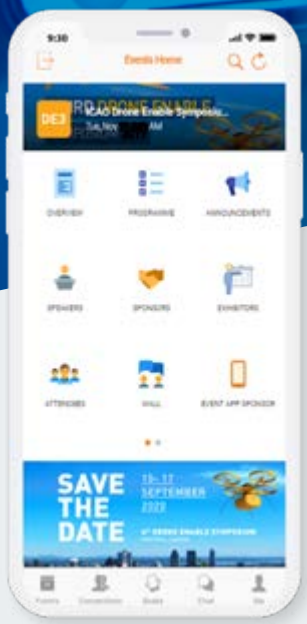

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AGENDA

DAY 1 – TUESDAY, 12 NOVEMBER 2019

09:30 – 10:00

Welcome Remarks

Mr. Stephen P. Creamer, Director, Air Navigation Bureau, ICAO

Keynote Address

H.E. Claver Gatete, Minister of Infrastructure, Rwanda

10:00 – 10:30

ICAO Updates

RPAS Programme

This session will provide an overview of the work being undertaken by ICAO and the advancement of RPAS regulatory material.

Ms. Leslie Cary, Chief, Remotely Piloted Aircraft Systems Section, ICAO

10:30 – 11:00

Coffee Break

Sponsored by
Meituan Autonomous Delivery

11:00 – 12:00

UAS AG

This session will summarize the work of the ICAO UAS Advisory Group, including the most recent updates to the UTM Framework based on the information derived from DRONE ENABLE/2, updates to the ICAO UAS Toolkit and the results of the DRONE ENABLE/3 RFI Process.

Mr. Mark Wuennenberg, Technical Officer, Remotely Piloted Aircraft Systems Section, ICAO

UAS Impact on ADS-B

A discussion on the ICAO State letter providing guidance on the negative impacts of saturating the existing ADS-B system (1090 MHz spectrum) and the potential need to limit the use of ADS-B out on small UAS operated at low altitudes.

Mr. Vaughn Maiolla, Technical Officer, Airspace Management and Optimization Section, ICAO

Aircraft Registry Network (ARN)

The aircraft registry network (ARN) concept which ICAO has spearheaded will be discussed, including its potential, functionality, interaction with national registry systems, and elements that may help facilitate industry progression with UA registration practices.

Mr. David Scorer, Technical Officer, Operational Safety Section, ICAO

12:00 – 12:15

Unifly, Gold Sponsor Presentation

Mr. Marc Kegelaers, CEO, Unifly, Gold Sponsor

12:15 – 13:45

Lunch Break

Sponsored by
Unifly

13:45 – 15:00

Trust Framework

Providing identification and integrity for global interoperability while managing change and growth. Future challenges of aviation in connectivity and cyber security, covering remote ID and global drone registry concepts, as well as collaboration of actors to build a trust framework. This session will cover the entire ecosystem of digital (unmanned) aviation addressing global and national authority, telecommunication, manufacturer and UTM service provider(s).

Moderator – **Mr. William Voss,** Advisor to the Director of the Air Navigation Bureau, ICAO

Mr. Robert Segers, NextGen ISS Architect, Federal Aviation Administration (FAA)
Mr. Christian Struwe, Head of European Public Policy, DJI
Mr. Reinaldo Negron, co-president (by Wing), GUTMA

15:00 – 15:30

Coffee Break

Sponsored by
Thales

15:30 – 17:00

Information Management

How can information management meet the requirements of the UAS community to ensure that the required information (including aeronautical, geospatial, meteorological, flight and flow, security, etc.) is valid, current and accurate, and made readily available in support of drone operations?

Moderator – **Mr. Jean-François Grout,** Assistant Director ICAO Relations, IATA

Presentations:
Mr. Steve Bradford, Chief Scientist, Federal Aviation Administration (FAA)
Mr. David Almeida, IMP member (ICCAIA), SWIM, USA
Mr. Thomas Lutz, Senior Architect - Technical Solution Manager, Frequentis and
Ms. Maria Tamm, GOP U-space Program Manager, Estonian Air Navigation Services (EANS)
Mr. Andreas Lamprecht, Chief Technology Officer, Airmap
Mr. Marc Kegelaers, CEO, Unifly

17:00 – 17:15

The Boeing Company, Platinum & Bronze Sponsor Presentation

Ms. Mildred Troeleger, Director Global Airspace Integration. The Boeing Company

17:15 -19:30

Reception

Sponsored by
The Boeing Company

END OF DAY 1

DAY 2 – WEDNESDAY, 13 NOVEMBER 2019

09:00 – 09:30	**Welcome Remarks** Keynote Address – **Mr. Florian Guillermet,** Executive Director, Single European Sky ATM Research (SESAR)	**Welcome Remarks** Keynote Address – **Mr. Brian Wynne,** President and CEO, Association for Unmanned Vehicle Systems International (AUVSI)
09:30 – 10:30	**UTM Service Suppliers (USS) Organizational Construct and Approval Processes** This session will consider potential certification requirements for UTM Service Providers, whether they should be held to similar standards as ATM Service Providers, what standards would need to be applied if certifying a USS, and what organizations would develop such standards. Moderator – **Mr. Carlos Cirilo,** Director ATM Infrastructure, International Air Transport Association (IATA) Presentations: **Mr. Cristiano Baldoni,** Head of UTM Engineering, ENAV and **Mr. Fabrizio D'Urso,** Airworthiness Regulation Department, Head of Type Certification Coordination Unit, ENAC **Mr. Daniel Garcia-Monteavaro Vizcaino,** Head of Drone Business Development Department, ENAIRE, Spain **Mr. Benoit Curdy,** Digital Transformation Architect, Swiss Federal Office of Civil Aviation, Innovation and Digitalization Unit	**Deconfliction and Separation Management** Deconfliction and separation management are key tenants of aviation safety that apply equally to unmanned aviation. This session will explore these considerations including the processes, procedures and associated tools to support strategic and tactical separation management, and the development of separation and CNS standards. Moderator – **Mr. Randy Willis,** Member to the RPAS Panel, CANSO Presentations: **Dr. Daichi Toratani,** Researcher, Electronic Navigation Research Institute (ENRI) **Dr. Aaron McFadyen,** Science and Engineering Faculty, Queensland Institute of Technology **Mr. Douglas Coates,** Business Development, Ciconia Inc. **Ms. Patricia Hervías Vallejo,** Head of UTM Systems Engineering, Indra Sistemas
10:30 – 11:00	**Coffee Break** Sponsored by **The Boeing Company**	
11:00 – 12:30	**UTM Service Suppliers (USS) Organizational Construct and Approval Processes** *(Continued)* Moderator – **Mr. Carlos Cirilo,** Director ATM Infrastructure, International Air Transport Association (IATA) Presentations: **Mr. Andreas Lamprecht,** Chief Technology Officer, Airmap **Mr. Gur Kimchi,** VP, Amazon Prime Air **Mr. Reinaldo Negron,** Head of UTM, Wing	**Deconfliction and Separation Management** *(Continued)* Moderator – **Mr. Randy Willis,** Member to the RPAS Panel, CANSO Presentations: **Mr. Andrew Hately** of EUROCONTROL, Technical coordinator of the CORUS project **Mr. Frank Matus,** Director, Digital Aviation Market Development – Americas, Thales **Mr. Marta Sánchez Cidoncha,** Senior R&D Engineer, CRIDA, Spain **Dr. Abdelali Achachi,** Principal Air Traffic Controller, University of Batna 2 - Algeria

12:30 – 13:45	**Lunch Break** Sponsored by **DJI**
13:45 – 14:00	**DJI, Gold Sponsor Presentation** **Brendan Schulman,** Vice President of Policy and Legal Affairs, DJI
14:00 – 15:30	**Risk Assessment and Contingency Operations** This session will focus on key principles of UTM risk management (strategic, tactical and contingency/emergency) and aims to clarify what should be considered when establishing a "UTM risk assessment model". Presenters will discuss both current ATM risk management and novel proposals in UTM and UAS risk management and how these can be used to facilitate hazard management in the context of UTM. Moderator – **Mr. Chris Dalton,** Chief, Airspace Management and Optimization Section, ICAO Presentations: **Mr. Nico Voorbach,** Director ICAO Affairs, CANSO **Mr. Peter Sachs,** Safety and Risk Architect, Airbus UTM **Mr. Andrew Carter,** President and CTO, ResilienX **Dr. Kin Huat Low,** Principal Investigator of TM-UAS Programme, Air Traffic Management Research Institute (ATMRI); Professor, Nanyang Technological University, Singapore **Mr. Daniel Garcia-Monteavaro Vizcaino,** Head of Drone Business Development Department, ENAIRE, Spain
15:30 – 16:00	**Coffee Break** Sponsored by **The Boeing Company**
16:00 – 17:30	**Industry Successes** At DRONE ENABLE/1, industry and regulators recognized the urgent need for a UAS identification standard that would be flexible enough to meet the diverse needs of States yet specific enough to allow manufacturers to build products to be operated globally. In this panel, experts will discuss the substantial progress made in this area, and additional steps that may be required to achieve global acceptance of the new standards. Included as part of this panel will be a live demonstration showing one example of how the new standards could be used to provide a secure, flexible, and globally interoperable identification system. Moderator – **Mr. Stephen P. Creamer,** Director, Air Navigation Bureau, ICAO **Ms. Jessie Mooberry,** Head of UTM Deployment, Airbus/A3 **Mr. Philip Kenul,** Chair, F38 UAS Committee ASTM International, Senior Vice President, ASTM International **Mr. Christian Schleifer-Heingärtner,** Secretary General and CEO, European Organisation for Civil Aviation Equipment (EUROCAE) **Mr. Lorenzo Murzilli,** Manager, Innovation and Digitization, FOCA **Mr. Robert Segers,** NextGen ISS Architect, Federal Aviation Administration (FAA) **Mr. Javier Caina,** Director of Technical Standards, DJI **Dr. Zachary Peterson ,** Head of Autonomous Vehicle Security, WhiteFox Defense Technologies Inc.
17:30 - 19:30	**Reception**

END OF DAY 2

DAY 3 – THURSDAY, 14 NOVEMBER 2019

09:00 – 09:05 — **Welcome Remarks**

09:05 – 10:10 — **Operational Experiences**

Exploring a pair of use cases from opposite ends of the spectrum; from a small island State with limited capacity to a large advanced State. This session will identify the issues and challenges related to beyond visual line-of-sight operations and provide insight to assist all States in facilitating such operations.

Moderator – **Ms. Leslie Cary,** Chief, Remotely Piloted Aircraft Systems Section, ICAO

Presentations:
Ms. Katherine Gray, Consultant, CAA Vanuatu
Mr. Geoff Graves, Consultant, Vanuatu
Mr. Mark McKeeman, Director, RPAS Project, Transport Canada
Mr. Félix Meunier, Director, RPAS Task Force, Transport Canada

10:10 – 10:40 — **Coffee Break**

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10:40 – 11:35 — **UAS Operations Over the High Seas (Panel)**

Many States and UAS operators are interested in, or are already conducting, UAS operations over the high seas. However, under the current regulatory regime, such operations must be approved by the State of Registry and be conducted in accordance with ICAO Annex 2— *Rules of the Air* which clearly states that "these rules apply without exception". This panel will discuss the challenges of, and potential solutions to, enabling uncertificated UA operations in high seas airspace.

Moderator – **Mr. Mike Boyd,** Technical Officer, Airspace Management and Optimization Section, ICAO

Presentations:
Mr. Jeffrey Klang, FAA General Counsel, Federal Aviation Administration
Ms. Cathy Alldred, UAS Pilot / Instructor, Cyberhawk
Capt. Philip Hall, Director, Unmanned Aircraft Systems, NOAA

11:35 – 12:30 — **Cooperative Separation of Stratospheric Operations (Panel)**

As the development of UTM moves forward enabling various unmanned aircraft operations at low altitude, how can UTM principles be applied to the management of high-level airspace above current commercial flight trajectories? Industry operators will share their collaboration as they work together to foster industry-based cooperative separation at high altitudes; discuss how regulators could enable UTM at high altitude; and what cooperation with ANSPs would look like.

Moderator – **Ms. Nancy Graham,** President, Graham Aerospace International

Presentations:
Mr. Steve Bradford, Chief Scientist, Federal Aviation Administration (FAA) and
Mr. Parimal Kopardekar (PK) Senior Technologist for Air Transportation System, and Principal Investigator, Unmanned Aircraft Systems Traffic Management (UTM) NASA
Mr. Robin Garrity, ATM expert, airports and airspace user operations, SESAR
Mr. David Kim, Chief Technical Officer, Sceye
Mr. Andrew Tailby, Head of Flight Operations, Airbus/Zephyr
Dr. Gil Crouse, Chief Engineer for Odysseus, Aurora Flight Sciences/Boeing
Mr. Leo Bouygues, Head of Flight Operations, Loon

12:30 – 12:45	**Meituan Autonomous Delivery, Gold Sponsor Presentation** **Dr. Yinian Mao,** Senior Director of Engineering, Meituan-Dianping and Meituan Project Lead
12:45 – 14:15	**Lunch Break** Sponsored by **Meituan Autonomous Delivery**
14:15 – 15:15	**Flight Rules (Panel)** UAS and their associated technology are introducing new aviation challenges not foresee even a few years ago. One challenge pertains to the flight rules - instrument and visual - which have provided for effective airspace management for many years. This panel will discuss whether the current flight rules are sufficient, whether they should be modified or if a new set of flight rules is necessary. Moderator – **Mr. Chris Dalton,** Chief, Airspace Management and Optimization Section, ICAO Presentations: **Mr. Philip Kenul,** Chair, F38 UAS Committee ASTM International, Senior Vice President, ASTM International **Mr. Olivier Mrowicki,** Network Manager, Programme Manager ASM/ATS/ATFCM Procedures, EUROCONTROL **Mr. Lorenzo Murzilli,** Manager, Innovation and Digitization, FOCA **Mr. Randy Willis,** Member to the RPAS Panel, CANSO
	Refreshments and Snacks (from 15:00 to 15:30 in the Exhibit Hall) Sponsored by **New Energy and Industrial Technology Development Organization (NEDO)**
15:15 – 16:15	**DRONE ENABLE/3 RECAP** Looking back at the presentations and related discussions, what are the key points that garnered support? Can we begin to define solutions? Can we identify the critical information streams needed to enable such a dynamic system? How do we use the information provided during DRONE ENABLE/3 to further the framework developed from previous DRONE ENABLE activities? Moderator – **Mr. Stephen P. Creamer,** Director, Air Navigation Bureau, ICAO Panel discussion All moderators
16:15 – 16:30	**Wrap up and Next Steps** **Mr. Stephen P. Creamer,** Director, Air Navigation Bureau, ICAO

END OF SYMPOSIUM

SAVE THE DATE

2020 EVENTS ON THE HORIZON

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	Montréal, ICAO HQ	28 – 29 April 2020
Meeting on Assistance to Aircraft Accident Victims and their Families	Montréal, ICAO HQ	2nd Quarter 2020 (TBD)
Aviation Data Link Symposium (ADLS): Now and Tomorrow	Montréal, ICAO HQ	2nd 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	15 - 17 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
Innovation Fair 2020	Montréal, ICAO HQ	26 - 27 October 2020
Third ICAO Global Air Navigation Industry Symposium (GANIS/3)	Montréal, ICAO HQ	28 - 30 October 2020
Sixth ICAO World Aviation Forum (IWAF 2020)	HQ/Region (TBD)	3rd Quarter 2020 (TBD)
Fifth Global Coordination Meeting between PIRGs and RAGs (PIRG-RASG/5)	Montréal, ICAO HQ	4th Quarter 2020 (TBD)
Next Generation Aviation Professionnals Summit (NGAP)	Region (TBD)	4th Quarter 2020 (TBD)
Global Aviation Training and TRAINAIR PLUS Symposium	Region (TBD)	4th Quarter 2020 (TBD)
Symposium on the Management of Change and Safety Promotion	Region (TBD)	4th Quarter 2020 (TBD)

* All event dates are subject to change. Updated on 09 October 2019.

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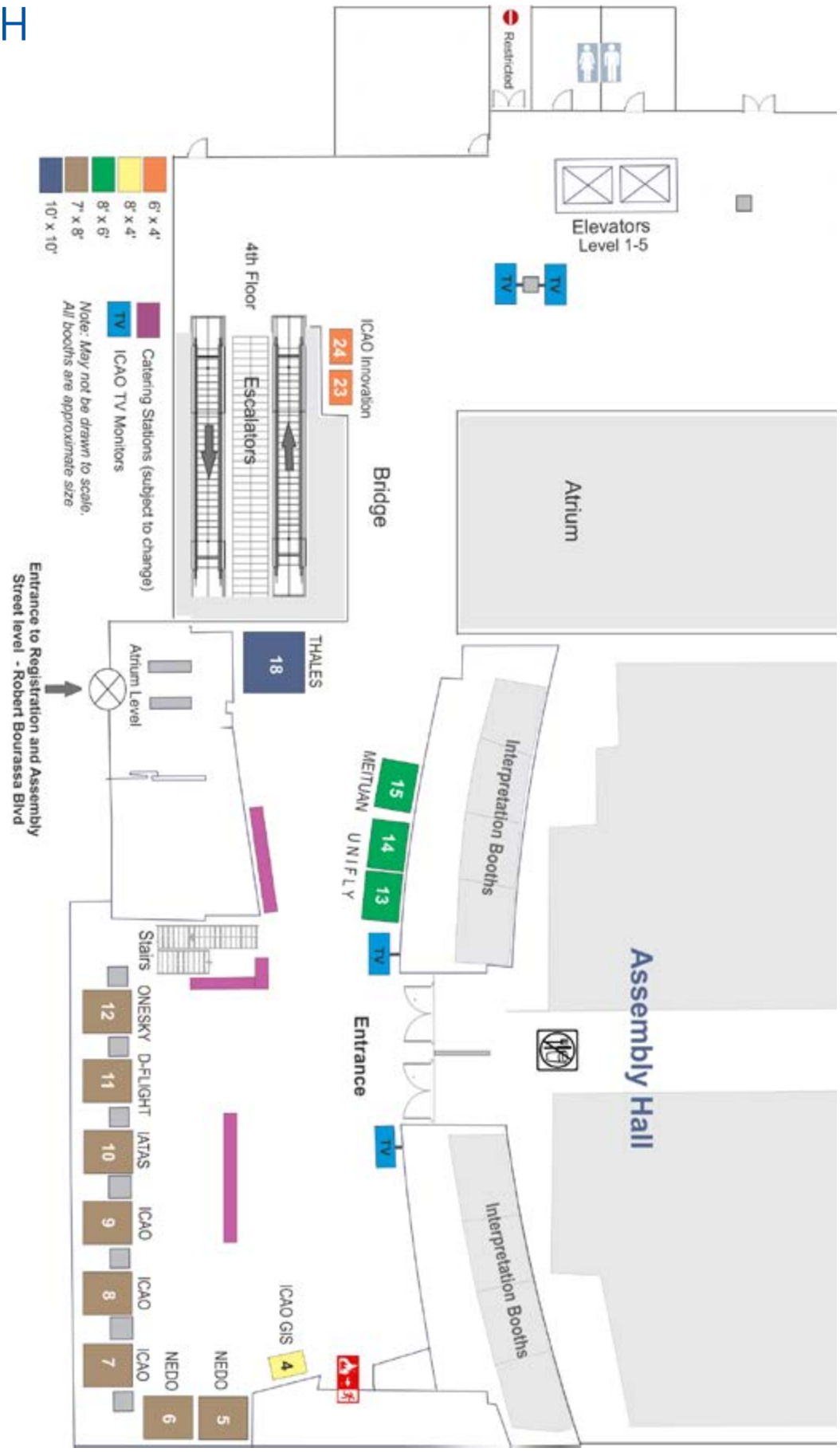

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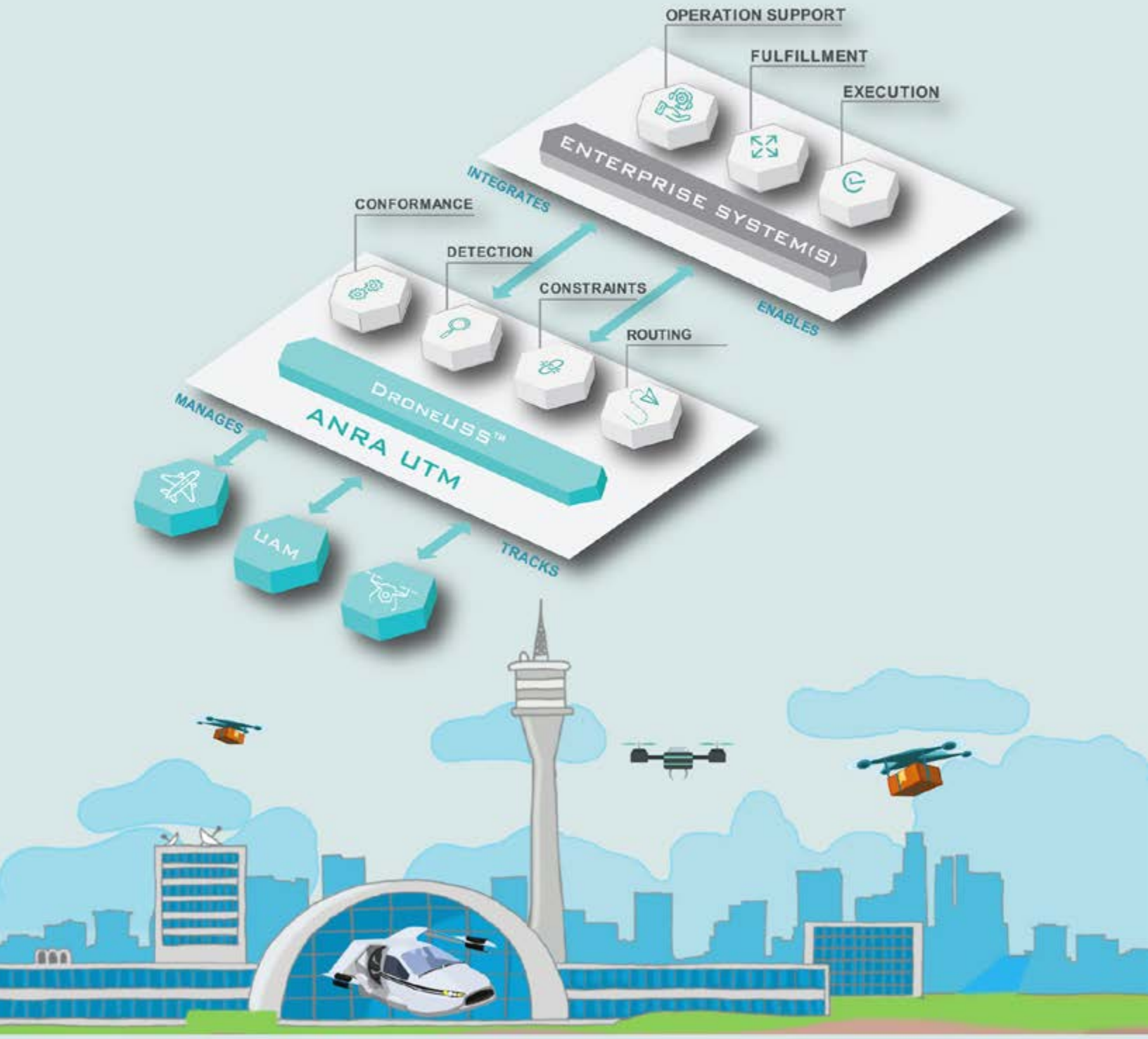

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DJI, the world's leader in civilian drones and aerial imaging technology, was founded and is run by people with a passion for remote-controlled helicopters and experts in flight-control technology and camera stabilization. The company is dedicated to making aerial photography and filmmaking equipment and platforms more accessible, reliable and easier to use for creators and innovators around the world. DJI's global operations currently span across the Americas, Europe and Asia, and its revolutionary products and solutions have been chosen by customers in over 100 countries for applications in filmmaking, construction, inspection, emergency response, agriculture, conservation and other industries.

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EXHIBITOR
BOOTH #13 & 14

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Unifly's Unmanned Traffic Management (UTM) platform connects official entities with operators to integrate drones into the air space safely and securely. Unifly offers a step-by-step, futureproof path to a full UTM solution. Our fully integrated one stop solution supports all stakeholders and is already deployed in many multilingual international environments, such as the US, Japan and Europe. One of the main benefits of UTM is the simplification of the flight request process. Our tracker BLIP acts as an electronic license plate.

Authorities can visualize and manage drone flights and declare no-fly zones. Drone operators can plan, track and validate their drones and their flights in line with international and local regulation.

Unifly supports SWIM standards, the standard protocol that all stakeholders in aviation use, to communicate with operators and drones through real-time messaging, using reliable data from worldwide sources for global data coverage including meteo, NOTAM, obstacles and no-fly zones. Hyper local accurate aeronautical navigation data provides reliable and trustworthy data for your location.

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MEITUAN AUTONOMOUS DELIVERY

EXHIBITOR
BOOTH #15

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The autonomous delivery department of Meituan was created in 2016. With the exponential growth in Meituan`s food delivery business, out goal is to use autonomous vehicles to improve delivery efficiency and use experience in the new feature, and to expand to production-scale down the road. MAD incorporates autonomous driving cars, autonomous drones and a tracking platform.

The autonomous driving cars team aims to equip the autonomous vehicles with the capability to deliver anytime, anywhere by employing multi-modal perception sensors, such as cameras and lidars, and through advanced localization, motion planning, and control, we ensure our delivery vehicles can operate in different landscapes and all weather conditions.

MAD`s autonomous drones provides services for urban and sub-urban last-mile delivery. Through the combination of light-weight intelligent drones and the urban infrastructure, we aim to establish a highly-efficient aerial distribution network, where our autonomous drones can seamlessly connect users and merchants, and delivery to end users for the last three kilometers.

In addition to opening up Meituan`s multiple business scenarios and delivery capabilities, by working with partners in the autonomous driving industry, the Meituan autonomous delivery platform was built to be the key link in the whole life cycle of business scenario-to-R&D-to-deployment, Leveraging the development of autonomous driving technologies, this platform is built to be the world`s largest interactive, intelligent, and open platform for last-mile distribution.

After nearly two years of development, Meituan Autonomous Delivery has made significant progress in autonomous delivery cars and autonomous drones. Our R&D cycle can turn design into prototype quickly, and run small-scale trials for proof-of-concept. Based on the trial results, we have started to run real-time delivery orders in Beijing, Xiongan, Shenzhen and other cities. In addition, MAD established strategic and business collaboration with multiple domestic and foreign partners such as nVidia, and established in-depth academic collaboration with world`s top universities as UC Berkeley and Tsinghua University. Till now, MAD has become a first-class, world-renowend technology brand in China.

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AIRBUS

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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.

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EXHIBITOR
BOOTH #05 & 06

BRONZE
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New Energy and Industrial Technology Development Organization (NEDO), plays an important role in Japan's economic and industrial policies as one of the largest public research and development management organizations. It has the two basic missions of addressing energy and global environmental problems and enhancing industrial technology. NEDO aims to encourage the development of drones and robots that can be used in sectors and fields such as logistics, infrastructure inspection, and disaster coping, while also running test flights and establishing systems in preparation for utilization of them in the society.

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EXHIBITOR
BOOTH #18

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The people we all rely on to make air travel safe and efficient rely on Thales. For 80+ years, Thales has been a global leader in air traffic management, designing, delivering, and supporting the aviation systems that keep our skies running across more than 170 countries worldwide. Thales is demonstrating its UTM product suite (SOARIZON/ECOsystem) to address the needs of new aviation users while meeting global aviation standards for traditional airspace management, aviaonics, UAS system design and operation, personal identification management, 4G/5G secured communications, and cyber security.

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IATAS.aero

EXHIBITOR
BOOTH #10

IATAS specializes in cutting-edge semi and fully automated turnkey 360-services, designed for all states, regardless of region, regulation or capacity.

IATAS offers complete and integrated solutions for all aviation stakeholders, focusing on both national and global operational and regulatory capabilities.

The mindset of our core infrastructure and solutions include the elimination of human errors, delivery of maximized safety, regulatory adherence, situational awareness and capacity.

From onboard dynamic airport mapping for pilots, through tower automation, to your full national airspace solutions with global synchronization, IATAS integrates your evolving needs.

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EXHIBITOR
BOOTH #11

D-Flight is the public-private company created by ENAV - the Italian Air Navigation service provider - in November 2018 to develop the U-space platform for the provision of services for Unmanned Aerial Vehicles (UAV), commonly called "drones". The Company is controlled by ENAV, with a 60% stake, with the remainder of the share capital held by a group of leading Italian technological partners

Following the signing of the agreement with the ENAC regulator, ENAV/D-Flight undertook to develop and implement a specific air traffic management system for UAVs and to define the methods of service delivery through the development of a platform that - integrating multiple articulated technologies - guarantees the safe handling of remotely piloted aircraft.

D-Flight is the Italian industry's response to the challenge launched by the European Union. The U-space platform - developed by D-Flight - will allow the timely development and deployment of U-space, in order to safely and seamlessly integrate complex drones' operations within the civil aviation airspace.

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OneSky™

EXHIBITOR
BOOTH #12

OneSky is a new company from Analytical Graphics focused on helping customers plan and perform safe and efficient UAS operations. Leveraging 30+ years of industry experience and proven aerospace grade software, our technology provides advanced dynamic analysis, decision support and simulation capabilities to ensure compliant beyond visual line of sight operations. By combining analytical flight dynamics with advanced simulation capabilities, OneSky applies an enhanced level of engineering analysis to the challenges of UAS and UAM integration into the manned airspace. Our analysis includes high resolution terrain/elevation modeling, urban environment considerations, GPS/NAV quality forecasting, RF/Comm/C2 system modeling, weather, population density, route deconfliction, InterUSS & NASA TCL4 support. Explore how our UAV traffic management (UTM) system, analytical (SDSP) web services and fleet operations center applications can benefit your operations through quantitative analysis of the operating environment and unmatched real time situational awareness.

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ANRA TECHNOLOGIES

COLLABORATORS

"ANRA Technologies is an international provider of end-to-end solutions for unmanned aircraft systems (UAS) operators and airspace managers. Headquartered in Washington, DC with additional offices in Asia and Europe, the team includes folks like Michael Whitaker, former Deputy Administrator of the FAA, senior software engineers, air traffic experts, computer engineers, system design architects, and FAA-certified manned and remote pilots.

ANRA offers two software platforms for UAS Traffic Management (UTM) and Workflow orchestration platforms which can be deployed individually or combined into a comprehensive service package for an ANSP, regulator or a commercial enterprise. Each platform is comprised of microservices that are designed to scale to support millions of drones. These two software platforms include features such as discovery/authentication/registration services, mission planning, command and control, automated flight paths, dynamic flight routing, data processing, fleet management, traffic management, and open interfaces to enable integration into ATC as well as emerging capabilities like remote identification of drones. Both the platforms have been rigorously tested and vetted by the world's foremost government aviation entities and are operational today at multiple test sites, commercial enterprises and UAS corridors.

Over the past few years, ANRA has been working on collaborative UTM research and deployments with regulators and Air Navigation Service Providers (ANSP) such as the FAA, Airport Authority of India, Swiss FOCA and the UK's Department of Transport (DFT) and other along with other industry partners. This rich history of collaboration and testing has pushed ANRA to the industry forefront, ultimately becoming the leading voice of UTM technology providers.

ANRA Founder and CEO is also the board member for Global UTM Association (GUTMA) as well as the co-chair for ASTM Standards Working Group focussed on USS to USS Interactions and interoperability.

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AUVSI
ALL THINGS UNMANNED

COLLABORATORS

AUVSI XPONENTIAL 2020 is the global stage for everything unmanned — from state-of-the-art propulsion technology, sensors, energy storage and UAS mitigation solutions to what's coming over the horizon in AI, 5G, edge computing and more. As the largest, most significant event for the unmanned systems industry, you'll find your edge as you explore the latest technology innovations, develop new perspectives as you hear from industry luminaries, and cultivate creativity at special networking events where you will meet some of the most influential leaders in the unmanned and autonomous space. Learn more at www.XPONENTIAL.org.

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FORTEM TECHNOLOGIES

COLLABORATORS

Fortem Technologies is the leader in airspace awareness, safety, and security. Through an advanced ecosysem of distributed radar, AI at-the-edge, deep sensor integration, and autonomous drone capture, Fortem monitors, protects and defends the world's corridors, venues, infrastructures, borders, and regions from dangerous or malicious drone threats. The same ecosystem is accelerating the safety of the world's airspace for urban air mobility. Based in Pleasant Grove, Utah, the company is privately held and backed by Boeing, Signia Venture Partners, DCVC, Mubadala Investment Company, and others.

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SEABURY SOLUTIONS

COLLABORATORS

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.

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UNIFLY®

Drones are changing the way we think about transport. However, one of the main conditions for realizing this business potential is the safe integration of drone traffic in the general airspace.

Unifly's award winning Unmanned Traffic Management (UTM) platform is already in use today globally. It allows drone pilots to check the legal status of their flight and allows authorities to monitor and manage drone traffic in their airspace.

To guarantee safe drone traffic, it is vital to know the exact position of drones. Unifly's Blip is an electronic device that acts as a license plate for drones. It offers a reliable, highly integrated, robust, efficient and easy to use tracking solution.

Combined with Unifly's UTM platform, BLIP provides a complete solution for authorities and ANSPs to identify and track drone traffic in their area of responsibility, independent of the systems used by the drone operators.

The global leading solution for the safe integration of drones.

www.unifly.aero

Our team

Small but energetic

100+ engineers

Average age 31

Join us, you will

Have the top level teammates in the industry.

Google, BAT, BMW, FAW and other well-known companies of the Internet and the automotive industry.

Graduate students account for more than 74%.

Feel the strong academic atmosphere in the company.

Discuss autonomous driving technology with the University of California Berkeley DeepDrive Alliance.

Working with multiple research groups of Tsinghua University to research potential the autonomous vehicles.

10+ academic sharing of autonomous driving technology per month.

Participate in international conferences and discuss cutting-edge technologies.

Share our progress in international events such as the World Internet of Things Convention, World Artificial Intelligence Conference, GTC China, World Intelligent Connected Vehicles Conference.

Here, we complement each other and shine with thoughts

Here, we get to know each other and brain-storm with sparkling ideas.

This is us, Meituan Autonomous Delivery, a team that is passionate, energetic, ideal-driven, innovative and brave enough to meet challenges.

Our products

We need you

Algorithm Jobs

- Deep learning algorithm expert / researcher
- Mapping and localization algorithm expert / researcher
- Planning and control algorithm expert / researcher
- HD map algorithm expert / researcher
- Data mining/machine learning expert
- Scheduling algorithm expert
- Simulation algorithm expert

Engineering Jobs

- Autopilot platform development expert/architect
- Simulation platform development expert/architect
- Data platform development expert/architect
- Java development expert/architect
- Front end development expert
- Hardware development expert

Business Jobs

- Autonomous cars product expert
- Senior business analyst
- Business cooperation manager

MAD has been aiming to use autonomous vehicles to deliver everything for everyone everywhere. We have multiple business scenarios for deploying autonomous driving technologies into the real world. In the meanwhile, we are also facing great technical challenges. If you love autonomous driving technologies, autonomous cars and drones, and are interested in creating a new ecosystem of autonomous delivery, MAD is your best choice.

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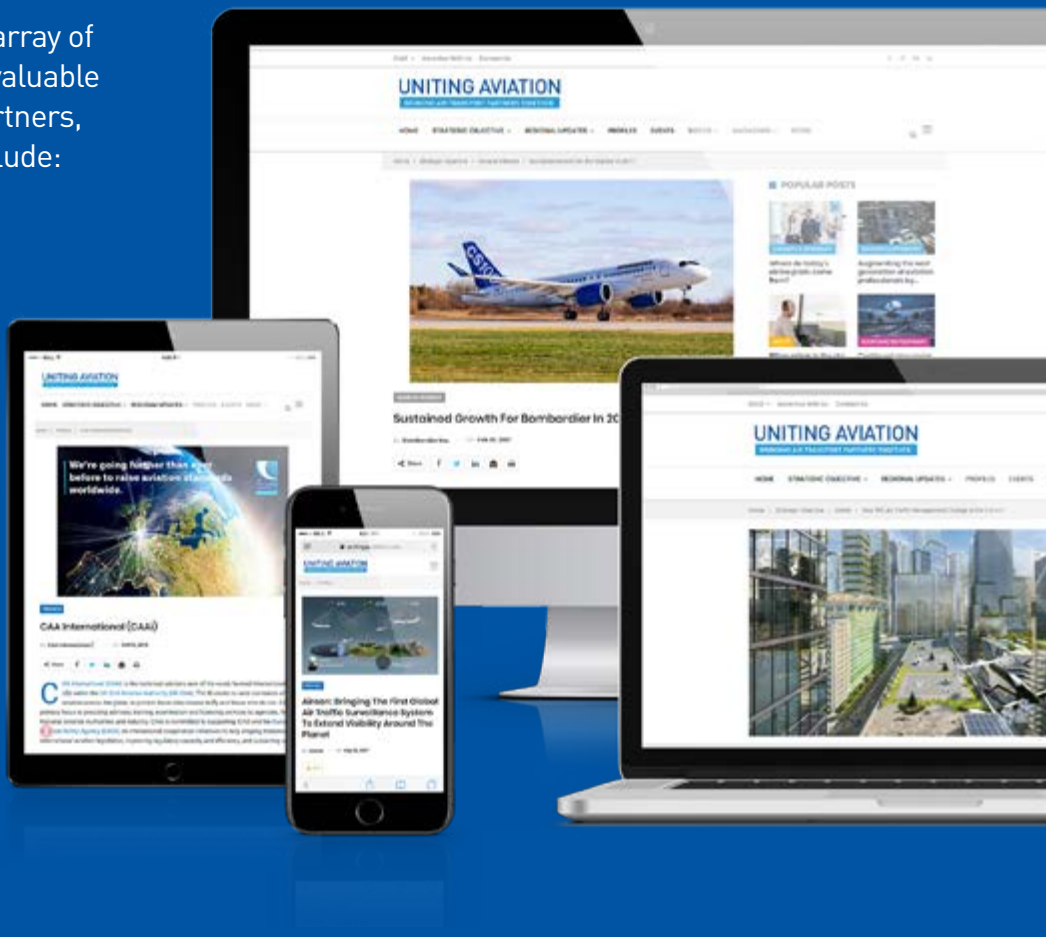

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