

## ***Brèves de l'industrie aérospatiale – 21 février 2022***

### **Salon aéronautique de Singapour -14/18 février**

13 000 visiteurs, 600 entreprises de 39 pays et régions et des chiffres de fréquentation en baisse

#### **Airbus**

- 7 A350F/ Singapore Airlines
- 7 A350F/ Etihad airways
- 20 A220 / Aviation Capital Group (ACG)
- 30 A220-300/JetBlue Airways
- 20 A320neos 8 A321neos/Jazeera Airways

#### **Boeing**

- 25 Boeing 737 Max /Malaysia Aviation Group
- 2 B777 Freighters/ Western Global Airlines

#### **ATR**

- 2 ATR 42-600 /Alliance Air

### **Industrie Aérospatiale**

#### **Airbus (17 février)**

Airbus annonce un bénéfice net de 4,2 Md€ en 2021, le plus important de son histoire, et un chiffre d'affaires de 52,1 Md€. Airbus prévoit de livrer 720 appareils en 2022 versus 611 en 2021. Le groupe, qui employait 126 000 personnes fin 2021, prévoit d'en recruter au moins 6 000 cette année.

#### **United Airlines Aviate (17 février)**

United Airlines' in-house pilot-training organisation United Aviate Academy has ordered 25 Cirrus TRAC SR20s and taken options to purchase a further 50. This is part of an effort by United to significantly increase pilot training. The aircraft are pilot-training variants of Cirrus' SR20.

#### **Airbus A220 orders and deliveries as of Jan 18 2022**

|          | Orders   |          | Deliveries |          | Backlog  |          |
|----------|----------|----------|------------|----------|----------|----------|
|          | 31/01/21 | 18/01/22 | 31/01/21   | 18/01/22 | 31/01/21 | 18/01/22 |
| A220-100 | 90       | 102      | 48         | 51       | 42       | 51       |
| A220-300 | 540      | 578      | 98         | 143      | 442      | 435      |
| Totals   | 630      | 680      | 146        | 194      | 484      | 486      |

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## Aviation Commerciale

### **Air Canada A220 (18 février)**

Air Canada now intends to now take delivery of 12 Airbus A220s that it had previously intended to cancel. In November 2020, amid the pandemic, the airline said it was “cancelling” orders for 12 of the Airbus narrowbodies. That is no longer the case.

### **Singapore Airlines-A350F (16 février)**

Singapore Airlines a commandé 7 A350F (A350 cargo basé sur l’A350-1000). Les nouveaux appareils remplaceront les Boeing 747-400F de la compagnie, à partir de 2025.

### **Western Global Airlines B777F (16 février)**

Boeing and Western Global Airlines announced a firm order for two 777 Freighters, the first new-production freighters for the all-Boeing cargo operator based in Estero, Florida.

### **JetBlue Airways-A220 (15 février)**

JetBlue Airways commande 30 Airbus A220-300, jusqu’alors en option, pour une commande de 100 avions au total. Ce contrat porte le carnet de commandes fermes de l’A220 à 740 appareils dans ses deux versions.

### **Jazeera Airways (14 février)**

Jazeera Airways has firmed up an order with Airbus for 28 aircraft, including 20 A320neos and eight A321neos.

### **Aviation Capital Group (ACG) (14 février)**

Aviation Capital Group (ACG), wholly owned by Tokyo Century Corporation, has signed a firm contract for 20 A220s following its order for 40 A320neo Family aircraft, including five A321XLRs announced in December 2021.

### **Malaysia Aviation Group (14 février)**

Malaysia Aviation Group will lease 25 Boeing 737 MAX aircraft from Air Lease Corp, with deliveries to begin in 2023. This is part of a restructuring of orders by MAG, the parent of Malaysia Airlines.

### **US Transportation Department (14 février)**

The US Transportation Department reported that US airlines flew 670.4 million passengers in 2021, up 83% from 2020 but still 27% lower than pre-pandemic levels in 2019. Domestic flights accounted for 91% of passengers, up from 88% in 2019, as domestic travel has rebounded faster than international flights.

### **Nav Canada -Transport Canada / ADS-B (12 février)**

Nav Canada et Transport Canada ont annoncé l’obligation aux exploitants d’aéronefs qui circulent dans l’espace aérien canadien de classe A et de classe B au-dessus de 12 500 pieds à respecter les exigences de performance de la surveillance dépendante automatique en mode diffusion (ADS-B) - émission. L’ADS-B fait appel au système mondial de navigation par satellite (GNSS). Le mandat entrera en vigueur le 23 février 2023.

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### **IATA (10 février)**

The International Air Transport Association (IATA) is calling on governments to further relax travel restrictions as COVID-19 evolves, in its opinion, from the pandemic to the endemic stage. IATA wants all travel barriers, including quarantine and testing, removed for fully vaccinated travelers.

## **Aviation d'affaires**

### **Transport Canada (15 février)**

Transport Canada has issued a notice of proposed amendment to require installation of lightweight flight data recorders (LDR) on almost all general and business aviation aircraft registered in Canada. The mandate would apply to both the existing fleet and newly manufactured aircraft that are used for private flying, training, aerial work, and commuter and air taxi operations.

### **Argus International (14 février)**

In 2021, business aviation flight activity in North America was above 2020 levels by 40.9 percent and 2019 levels by 7.2 percent. Flight hours similarly were up 42.3 percent from 2020 and 10.3 percent from 2019. Fractional operations saw the biggest bounce with the number of flights up 51 percent and hours 48.9 percent in 2021.

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## **Défense**

### **Sikorsky-Israel (16 février)**

Sikorsky will deliver four CH-53K King Stallion helicopters to Israel. Work will take place at various US locations as well as in Canada, France and UK, for completion by November 2025.

### **Albany Engineered Composites (16 février)**

Albany Engineered Composites (AEC) has been selected by Sikorsky Aircraft to produce the complete CH-53K aft transition assembly in a competitively bid ten-year long term agreement covering Lots 7 through 14. Long-lead funding is already under way to support the schedule and the contract is expected to be finalised in the first quarter of 2022 with first deliveries in 2023.

### **Boeing /Singapore Air Force (16 février)**

Boeing is helping the Singapore Air Force create a predictive maintenance system for the F-15SG through a data exchange agreement with the country's Defence Science and Technology Agency. The data ensuing exchange will enable supply chain analysis.

### **US/UK (15 février)**

The US and UK have signed an agreement for collaboration opportunities in the US Army Future Vertical Lift Program, including the Future Long-Range Assault Aircraft (FLRAA) and Future Attack Reconnaissance Aircraft (FARA) programs.

## **MRO**

### **Safran Helicopter Engines / ST Engineering (16 février)**

Safran Helicopter Engines et ST Engineering vont étudier l'utilisation de carburant aérien durable (SAF) dans les moteurs d'hélicoptères, et assister les opérateurs dans leur transition vers ce type de carburant. Les deux partenaires proposeront leur expertise dans le domaine de la fabrication des moteurs et de leur MRO.

### **King Aerospace (15 février)**

King Aerospace is planning to open a location in a third US State and increase its work in specialized and advanced aircraft systems integration and modification projects on aircraft as large as Boeing 747s and 777s. The Dallas-based company, which operates an MRO and modification center for Boeing Business Jets and other VIP narrowbody and corporate jets, has leased two hangars at Northwest Arkansas National Airport.

## **Drones - Advanced Air Mobility**

### **Eve Air – Embraer (16 février)**

Embraer's Eve Air Mobility subsidiary has signed letters of intent for up to 90 electric vertical-takeoff-and-landing aircraft with two major Australian helicopter operators (50 HeliSpirit 40 Microflite Helicopter Services).

### **Rolls-Royce / Luxaviation (14 février)**

Rolls-Royce Electrical, Rolls-Royce Power Systems and Luxaviation have signed an agreement to support AAM including operations, vertiports and related infrastructure. The strategic partnership will look at three main areas: charging and energy infrastructure for vertiports, maintenance provision for electric aircraft and digital solutions for related applications.

### **Joby Aviation /ANA (14 février)**

ANA will work with Joby Aviation to establish ridesharing flights in Joby's four-passenger eVTOLs in Japan. Toyota is also involved in the partnership, providing expertise for plans to integrate the air taxi services with ground transportation. ANA and Joby will focus on infrastructure development, pilot training, flight operations, air traffic management, public acceptance, and regulatory requirements.

### **Nordic Unmanned – Schiebel CAMCOPTER S-100 (14 février)**

Nordic Unmanned has received its third Schiebel CAMCOPTER S-100 system, making it the largest commercial operator of the CAMCOPTER S-100 in the world. The system will initially be used for an offshore logistics contract with Equinor in Norway beginning in April 2022.

### **FAA (14 février)**

The FAA has announced the next incremental step in integrating drones into the National Airspace system with a field test of Unmanned Aircraft System Traffic Management (UTM.) The test will start in the next few months and will gather data on the integration of small drones operating at low altitude. The FAA and drone manufacturers will fly the drones to simulate real-world circumstances and determine how to best manage operations in different environments.

## Spatial

### **ABB and Earth Daily Analytics (18 février)**

ABB, whose Canadian headquarters are in Québec, will supply multispectral imaging systems to Canadian data and analytics company EarthDaily Analytics (EDA). ABB's systems will be placed on 10 satellites (9 primes and 1 spare) that will form part of the EarthDaily satellite constellation network, which will provide high-quality, imagery of objects as small as five meters.

### **Europe (17 février)**

Les ministres européens chargés de l'Espace ont donné leur feu vert politique au lancement d'une constellation européenne de satellites de connectivité sécurisée, et approuvé l'ambition européenne de fixer des règles du jeu au trafic spatial. Les ministres se sont engagés à adopter des règles communes d'ici à 2024.

### **Agence Spatiale Canadienne (17 février)**

Le détecteur de guidage de précision (FGS) du télescope spatial James Webb, élément de conception et de fabrication canadienne essentiel à la mission, a été utilisé en mode poursuite pour la première fois dans le cadre du processus d'alignement des 18 miroirs hexagonaux dorés.

## Innovation

### **Airbus/ Singapour -pôle Hydrogène (18 février)**

Airbus a signé un accord de coopération avec Changi Airport Group, la société Linde (société mondiale de gaz industriels et d'ingénierie), et l'Autorité de l'aviation civile de Singapour (CAAS), afin d'étudier le potentiel d'un futur pôle hydrogène à Singapour.

### **Deutsche Aircraft (16 février)**

Deutsche Aircraft has contracted with SupplyOn, a leading supply chain management company, to develop a state-of-the-art digital management system for the supply chain of its D328eco aircraft. This supports its objective to achieve its 100% paperless, full digitalisation objective.

### **NIMS / Softbank Corp. - Lithium-air battery (9 février)**

NIMS and Softbank Corporation have developed a lithium-air battery which they claim has achieved the highest energy densities (over 500Wh/kg) and best cycle life performances ever recorded. Lithium-air batteries have the potential to be the ultimate rechargeable batteries. They are lightweight and high capacity, with theoretical energy densities several times that of currently available lithium-ion batteries. Because of these potential advantages, they may find use in a wide range of applications, including drones.

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