

## ***Brèves de l'industrie aérospatiale – 13 juin 2022***

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### **Industrie Aérospatiale**

#### **Airbus A321XLR (10 juin)**

Airbus plans to conduct the first flight of the A321XLR from its Hamburg Finkenwerder plant on 15 June.

#### **Safran Electrical & Power (10 juin)**

Safran Electrical & Power a signé l'extension de son contrat avec Lufthansa Technik pour assurer l'entretien des câblages électriques des moteurs CFM56 équipant les A320 et les B737, soit une flotte de plus de 12 000 avions.

#### **Spirit (9 juin)**

Spirit currently has 85 to 90 completed B737 MAX airframes in inventory as it adjusts deliveries to Boeing's Renton factory. Boeing's decision to maintain the B737 MAX production rate at 31 aircraft per month has forced Spirit to amend its own production plans.

#### **Element 119 (9 juin)**

Element 119 LLC is planning to expand its plant in CT, USA. It manufactures coatings for the aerospace, marine, and auto markets under the product name System X. The company sells its products to more than 40 countries and is currently pursuing several growth opportunities.

#### **Leonardo (8 juin)**

Leonardo has qualified Aidro, a subsidiary of Desktop Metal, as a supplier of 3D printed parts for its helicopters. Traditionally a developer of hydraulic and fluid power systems, Aidro has now become one of two suppliers to receive Leonardo's Declaration for Qualification of Process for Additive Layer Manufacturing. Since gaining accreditation, the firm has begun the manufacture of flight-ready parts for Leonardo's civil and military helicopters.

#### **Parker-Hannifin (8 juin)**

In third-quarter fiscal 2022 (ended March 2022), Parker-Hannifin's cost of sales and selling, general and administrative expenses increased 7.9% and 6.6% respectively versus 2021. its long-term debt balance remained high at \$6,229.6 million and its cash and cash equivalents were \$467.7 million.

#### **Partenaires Thrust Capital (7 juin)**

Le fonds Partenaires Thrust Capital est destiné à aider les PME du secteur de l'aérospatiale et dispose d'un capital initial de 77 millions \$. Il pourra bénéficier d'un investissement de 30 millions \$ de la part du gouvernement du Québec. Le Fonds de solidarité FTQ, le Mouvement Desjardins et des investisseurs privés comptent parmi les autres partenaires de l'initiative.

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### **Boeing 737 MAX 10 (7 juin)**

A report commissioned by the FAA has concluded that exemption from the most recent crew-alerting regulatory requirements contributed to the two MAX crashes. The MAX 10's crew-alerting system has been upgraded but does not comply with current requirements. Boeing will require an extension to the exemption beyond 2022 to achieve MAX 10 certification. The FAA has told Boeing that certification is unlikely to be completed this year.

### **Liebherr-Aerospace Rolls-Royce (7 juin)**

Rolls-Royce has selected Liebherr Aerospace to supply four valves for the pneumatic and anti-ice systems of the Pearl 10X engine powering Dassault Aviation's Falcon 10X.

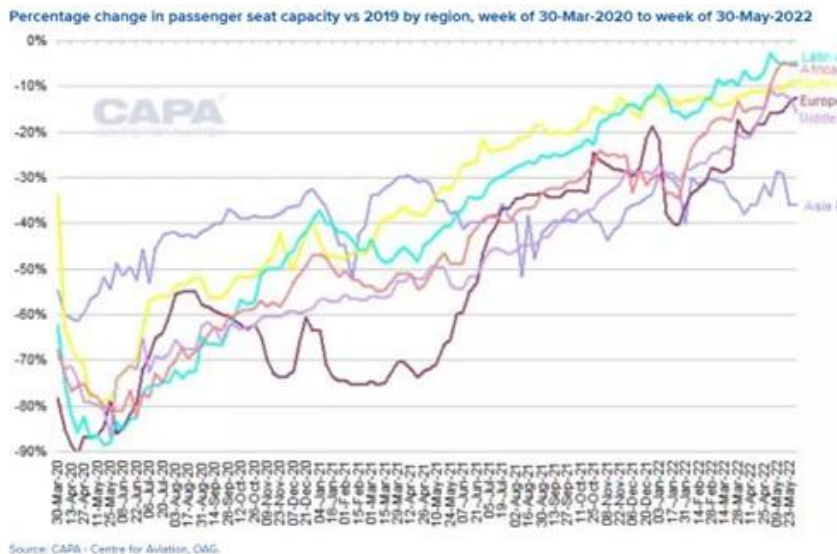
### **FLYHT Aerospace Solutions (7 juin)**

FLYHT Aerospace Solutions announced that installation and testing has been completed for the first of 20 AFIRS 228S units on ARJ21 aircraft ordered by China Express Airlines Co. Ltd.

### **Boeing B787 (6 juin)**

Boeing has not delivered a Dreamliner since June last year and around 115 aircraft have been built but not delivered. Both Boeing and its customers are optimistic about the prospect of B787 deliveries taking place as early as this summer.

## **Aviation Commerciale**



According to data from OAG and CAPA, Europe's capacity as a percentage of 2019 levels improved in each quarter of 2021. It was 27% in 1Q2021, 34% in 2Q2021, 64% in 3Q2021 and 71% in 4Q2021. 1Q2022 capacity was 74% of 1Q2019 levels.

Capacity for 2Q2022 is currently projected at 84.7% of 2Q2019 levels and 3Q2022 is projected at 90.9% of 3Q2019.

### **Southwest Airlines / Astronics (10 juin)**

Astronics has signed an agreement with Southwest Airlines to provide its Empower in-seat power system for installation on 475 Boeing 737 MAX 7 and MAX 8 aircraft. Astronics will begin deliveries in the fourth quarter of 2022 for retrofit on Southwest's existing MAX 8 fleet.

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### Connect Airlines (10 juin)

Connect Airlines has placed an order to convert up to 100 ATR 72-600 regional aircraft to Universal Hydrogen powertrains and become the “world’s first true zero-emission airline.” The agreement comprises a firm order for 75 conversions and purchase rights for an additional 25.

### Air Vanuatu-A220 (10 juin)

Air Vanuatu has canceled its order for Airbus A220s and has purchased two additional Twin Otters with plans to purchase a second ATR. The airline’s fleet currently comprises one ATR 72, one Boeing 737, one Britten Norman Islander and two De Havilland Twin Otters.

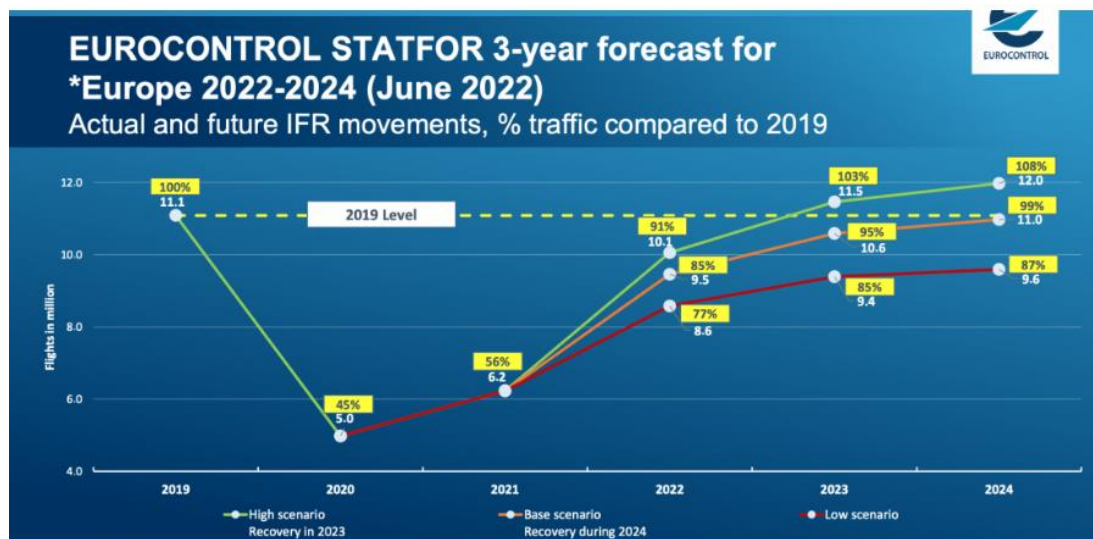
### Air Transat -Résultats du deuxième trimestre (9 juin)

Pour le deuxième trimestre terminé le 30 avril 2022, les revenus ont augmenté de 350,6 millions \$. Air Transat affiche une perte d'exploitation de 87,5 millions \$ alors que le prix du carburant affichait une hausse de 75,5 % au cours du trimestre, comparativement à 2021. Au 30 avril 2022, la trésorerie et les équivalents de trésorerie s'établissaient à 511,2 millions \$, comparativement à 346,1 millions \$ au 30 avril 2021.

### Nav Canada (8 juin)

Nav Canada has deployed the digital time-based aircraft separation tool known as Intelligent Approach at Toronto Pearson Airport. It is the first air navigation service provider in North America to employ this feature. This relatively new technology adds capacity across Pearson's five runways by optimizing the spacing between arriving aircraft.

### Eurocontrol (6 juin)



Eurocontrol expects traffic in its airspace to recover this year to 85 percent of pre-Covid 2019 levels despite disruption from Russia’s invasion of Ukraine and inflationary pressures on the global economy. In its forecast, Eurocontrol says the most likely scenario is for around 9.5 million flights this year in European airspace.

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## **Aviation d'affaires**

### **WingX Advance (9 juin)**

Global business jet activity in the first week of June was up 10 percent over the same period in 2021 and 20 percent above 2019 levels. North America logged nearly 50,000 business jet flights during this week, marking a 21 percent jump from the same period in 2019 and 12 percent from last year. The rebound in Europe was much stronger, with activity in the region since May 1 up 31 percent from the same period in 2021 and by 18 percent from 2019.

### **Argus Global Business Aircraft Activity report (6 juin)**

European flight activity in May increased by 46 percent year-over-year. More than 84,000 business aviation flights were recorded last month in Europe, and large-cabin jet operations were up 82.8 percent. In North America, May business aviation flight activity was up 11 percent year-over-year. As in Europe, large-cabin aircraft recorded the biggest increase in operations, up 20.3 percent from a year earlier.

## **Défense**

### **NH90 Norway (10 juin)**

Norway has terminated its purchase contract for 14 NH90 helicopters, citing the contractor's inability to find replacement components for critical systems, including its anti-submarine warfare system. Norway will return all helicopters and demand a full refund.

### **Dassault Aviation/Airbus Defence & Space (8 juin)**

Après plus d'un an de négociations, Dassault Aviation et Airbus Defence & Space n'ont toujours pas trouvé d'accord sur le partage des tâches concernant leur participation au programme du système de combat aérien du futur (Scaf).

### **Lockheed Martin (8 janvier)**

Lockheed Martin expects to begin deliveries of new F-16s in 2024 to international customers including the UAE, Saudi Arabia, Taiwan, Bahrain, Jordan and Slovakia. The \$1.67 billion sale of eight F-16s to Bulgaria received US State Department approval in April.

### **Germany / Boeing P-8A Poseidon (8 juin)**

Germany will buy additional Boeing P-8A Poseidon maritime patrol aircraft (MPA). Berlin has not yet said how many extra P-8s it intends to purchase, but its commitment to a follow-on order came after a €1.1 billion (\$1.18 billion) FMS deal for five aircraft was announced in June 2021.

### **Raytheon Technologies (7 juin)**

Raytheon Technologies will move its headquarters from the Boston suburbs to Arlington, Virginia, with access to defence decision makers a reason to be in the Washington region.

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## **MRO**

### **Lufthansa Technik/Premium AEROTEC (9 juin)**

A metal component developed at Lufthansa Technik's Additive Manufacturing (AM) Center for the IAE-V2500 engine's anti-icing system has received EASA certification. Premium AEROTEC will produce the so-called "A-Link" for Lufthansa Technik at its Varel (Germany) site.

### **ExecuJet MRO Services (9 juin)**

India's Directorate General of Civil Aviation (DGCA) has approved Dassault Aviation-owned ExecuJet MRO Services Middle East to perform line and base maintenance on Falcon 2000s. It already has DGCA approvals for the Falcon 7X, 8X, 900C/EX/EASy, and 2000EASy.

### **General Atomics AeroTec Systems (GA-ATS) /Embraer (8 juin)**

Embraer and General Atomics AeroTec Systems (GA-ATS) formerly known as Ruag Aerospace Services Oberpfaffenhofen have extended their service centre contract by three years. GA-ATS offers line and base maintenance for the Embraer Legacy 600 and 650, and Lineage 1000 series.

### **Constant Aviation (8 juin)**

Constant Aviation has announced that it has expanded its MRO capabilities beyond its portfolio of business jets, commercial airliners and other fixed-wing aircraft to include rotorcraft such as helicopters, drones and other commercial unmanned aircraft systems (UAS).

### **Bii.aero (7 juin)**

Bii.aero has acquired a significant portion of Aircraft Finance Germany's (AFG) inventory of Boeing spares, many of which are interchangeable between the Boeing 747-8, 767 and 777.

## **Drones – Advanced Air Mobility**

### **Thales - Airservices Australia (10 juin)**

Airservices Australia has contracted Thales to perform a trial of its drone detection, monitoring, and identification platform at Sydney Kingsford Smith Airport. Thales will deploy its platform and also act as technical integrator for the airport's Integrated Drone Surveillance System (IDSS).

### **Electra.aero / Airflow (9 juin)**

Electra.aero has acquired Airflow. Both companies have developed eSTOL aircraft, and Airflow's eSTOL business will now be consolidated into the Electra brand.

### **Drone Delivery Canada/ Edmonton International Airport (8 juin)**

Drone Delivery Canada (DDC) has announced that its Edmonton International Airport (EIA) initiative is commercially operational. The project will enable defined-route deliveries from EIA to off-airport property utilizing DDC's Sparrow drone and its DroneSpot® takeoff and landing zone, to transport cargo for Ziing Final Mile and Apple Express.

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### **Alpha Unmanned Systems / UAV Navigation (8 juin)**

Alpha Unmanned Systems has selected UAV Navigation to supply flight control systems that includes a robust GNSS-denied capability for its Alpha-800 and Alpha-900 UAV helicopters. UAV Navigation's VECTOR-600 autopilot allows Alpha's platforms to continue a mission if the GNSS signal becomes unavailable or is jammed. It is able to estimate the UAV's position and follow a flight plan, even if the UAV is Beyond Visual Line Of Sight (BVLOS).

### **Joby Aviation (7 juin)**

Joby Aviation has acquired Avionyx, an aerospace software engineering firm, to support its type certification program. The two companies first collaborated in 2021 when Joby awarded Avionyx a contract for testing and verification of systems software onboard its eVTOL aircraft.

### **Embraer Eve (7 juin)**

Eve (Embraer), and Falcon Aviation Services, a business aviation services operator in the Middle East and Africa regions, have signed a letter of intent for up to 35 eVTOL aircraft, with deliveries expected to start in 2026. The first eVTOL tourism flights will operate from a Dubai hotel.

## **Spatial**

### **NASA (9 juin)**

NASA will assemble a study team to observe UFOs, now known as UAPS (unidentified aerial phenomena), which are of interest for both national security and air safety.

### **United Launch Alliance (8 juin)**

United Launch Alliance (ULA) has signed a \$2 billion contract with Northrop Grumman to produce solid rocket boosters for its Atlas 5 and Vulcan Centaur rockets.

### **CNES/Artemis (8 juin)**

Le CNES a rejoint le programme de future exploration de la Lune piloté par les États-Unis, en signant les accords Artemis. La France devient ainsi le 20ème pays à s'associer au programme Artemis qui vise à renvoyer des astronautes sur la Lune autour de 2025, pour y établir à terme une présence humaine durable.

### **MDA (7 juin)**

Lockheed Martin has awarded MDA a contract to design and build antennas and antenna control electronics for its 42 low Earth orbit (LEO) satellites that will be part of the US Space Defence Agency's T1TL constellation. The package includes steerable Ka-Band and Link-16 antennas, as well as GPS antennas.

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## **Innovation**

### **Airbus SE and Kansai Airports Group (10 juin)**

Airbus SE and Kansai Airports Group have signed an MOU to study the use of hydrogen at three of the Japanese company's airports. They will investigate the development of infrastructure and plan how they would adopt hydrogen for Japan's aviation sector. The studies will take place at Kansai International Airport, Osaka International Airport, and Kobe Airport.

### **Electroflight (8 juin)**

Electroflight has launched an energy storage unit for prototype developments in electric aviation projects. The modular unit can be rapidly deployed without the need for a bespoke battery system. The UK-based company believes this will be especially useful for smaller electric and hybrid aircraft entering early-stage product development.

### **magniX - Tier1 Engineering (7 juin)**

magniX has announced that Tier 1 Engineering, who are specialists in the design and development of electric aircraft, performed the first flight of an all-electric Robinson 44 helicopter with a magniX electric propulsion unit (EPU). Tier 1 Engineering is currently working with the FAA to obtain a Supplemental Type Certificate (STC) for the "e-R44".

### **Temasek (6 juin)**

Singaporean state investment company Temasek has committed an initial \$5 billion to launch GenZero, an investment platform dedicated to accelerating decarbonization. Targeted areas include carbon capture and sequestration and sustainable aviation fuel (SAF).

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