

Brèves de l'industrie aérospatiale – 8 novembre 2021

Industrie Aérospatiale

Abipa Canada/ Groupe ARM (5 novembre)

Abipa Canada Inc. et le Groupe ARM ont annoncé leur rapprochement sous la bannière « ABIPA International », qui devient un acteur de référence dans l'usinage et l'assemblage de sous-ensembles avec un chiffre d'affaires dépassant les 100 millions de dollars canadiens, 400 employés et une présence industrielle répartie sur 6 sites (Canada, France, Maroc).

Airbus (5 novembre)

Airbus a enregistré 292 commandes brutes sur janvier-octobre, et 125 commandes nettes. L'avionneur a livré 460 appareils sur la période, dont 200 A320Neo, 149 A321Neo et 37 A350. 36 livraisons ont eu lieu en octobre, à 23 clients.

WeAre Group (5 novembre)

WeAre Group, entreprise positionnée sur le marché des pièces élémentaires complexes de petites et moyennes dimensions, acquiert les sociétés TARAMM et GAMMA-Tial, ajoutant la fonderie titane cire perdu à ses briques technologiques. WeAre Group prévoit de dépasser les 220 M€ de chiffre d'affaires en 2024.

FLYHT Aerospace Solutions (4 novembre)

FLYHT Aerospace Solutions (Calgary, AB) has signed a multi-year contract with Commercial Aircraft Corporation of China (COMAC) for installation of its AFIRS 228 flight information reporting system on the C-919 aircraft. AFIRS will be used for communications during cold weather certification that is due to be conducted in Canada.

CAA International /Embry-Riddle Aeronautical University (4 novembre)

CAA International (CAAI) and Embry-Riddle Aeronautical University have signed a Memorandum of Understanding focused initially on the development and delivery of aviation security and cyber security training in South America.

Aercap and GECAS (1 novembre)

AerCap Holdings N.V has completed its acquisition of the GE Capital Aviation Services business ("GECAS") from General Electric. The acquisition makes AerCap the largest lessor of aircraft, engines and helicopters. The combination will be the largest customer of Airbus and Boeing.

Boeing B737 MAX production rates (1 novembre)

Based on statements by Boeing concerning its inventory of undelivered B737 MAX aircraft, financial analyst Jeffries believes that the company will increase the production rate from 19 to 31 more slowly than it currently states, in late rather than early 2022.

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Mitsubishi Heavy Industries - MHI (31 octobre)

Mitsubishi's aerospace business recorded a net profit of ¥7.6 billion (\$US66.6 million) in the first half of its 2021 financial year, although revenues fell 26.5% to ¥247 billion (\$US2,165 million) due mainly to lower deliveries to Boeing. MHI delivered nine B777, three B777X and 19 B787 shipsets versus 13, six and 50 respectively a year earlier. MHIRJ is experiencing strong maintenance demand and is expanding its West Virginia service centre. It has also signed an after-sales service partnership agreement with US MRO Regional One.

Ratier-Figeac (29 octobre)

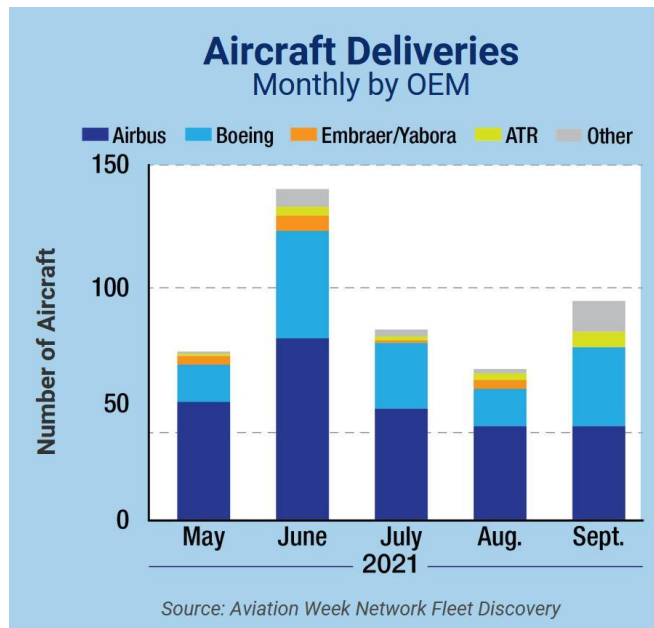
Ratier-Figeac (Collins Aerospace - Raytheon Technologies) a inauguré son nouveau centre d'excellence pour hélices d'avions suite à des investissements de 32 millions d'euros sur son site de Figeac (France).

Skyrise (29 octobre)

US start-up Skyrise has raised \$200 million to develop a touchscreen tablet-based flight automation system named FlightOS and says that Robinson Helicopters plans to integrate it into its R66 light helicopter. The system comprises software, touchscreen tablet, joystick and fly-by-wire hardware intended to replace conventional aircraft cockpit controls. Its purpose is to reduce workload allowing pilots to focus more on "critical decision-making".

Aviation Commerciale

Commercial aircraft deliveries May - September



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Lufthansa (4 novembre)

Lufthansa a un résultat opérationnel positif pour le troisième trimestre 2021 grâce à une reprise forte du trafic. La compagnie a transporté près de 20 M de passagers entre juillet et septembre, soit plus du double de l'été 2020, avec un taux de remplissage à 69%.

European airline capacity (4 novembre)

In October, Europe's airline passenger capacity measured by the number of seats available increased to just 24.6% less than the equivalent weeks of 2019. This is the highest percentage of 2019 capacity since pre-COVID.

Bamboo Airways (3 novembre)

Vietnam's Bamboo Airways signed an MOU with CFM International for the purchase of aircraft engines and equipment worth up to 1.73 billion euros (\$2 billion). CFM will supply LEAP-1A engines and equipment for its fleets of Airbus A321neo and Boeing 787-9 aircraft.

Fret aérien / Maersk /CMA-CGM (3 novembre)

Maersk investit dans le transport aérien de marchandises, outre l'acquisition de Senator International, un commissionnaire de transport allemand, Maersk achète deux Boeing 777F et en loue trois supplémentaires. Maersk dispose déjà de la compagnie Star Air avec 15 Boeing 767 dédiés au fret. Son concurrent CMA-CGM a créé une nouvelle division Air Cargo.

Air Asia cargo aircraft (3 novembre)

AirAsia Group's logistics arm Teleport may convert some of its orders for 360 A321neo aircraft into dedicated cargo aircraft. However, it has not said whether it is prepared to be the launch customer. Teleport has recently taken delivery of its first dedicated cargo aircraft, a Boeing 737-800. AirAsia has airline operations in Malaysia, Thailand, Indonesia and the Philippines.

Air Canada A220 order (3 novembre)

Air Canada has reinstated orders for two of the 12 A220 aircraft that it cancelled in 2020.

Air Canada (2 novembre)

Air Canada's CEO says that the airline "is now in recovery mode". In the third quarter it narrowed its loss to \$640 million from \$685 million last year, revenue nearly tripled and travel demand began to recover. Revenue increased to \$2.103 billion, almost three times the 2020 amount.

EASA: Single pilot operations (2 novembre)

EASA has launched a research project under which two concepts for single-pilot operations in commercial aircraft will be assessed. Extended minimum-crew operations, or 'eMCOs', increases flight times by allowing single-pilot periods during cruise, supplemented by advanced cockpit support or ground assistance. This could be implemented from 2025. The more radical concept, with a potential introduction from 2030, is full single-pilot operations, or SiPOs. This has a potential introduction date of 2030.

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Emirates A380 end of life (1 novembre)

Emirates is recycling a high proportion of the parts from its first Airbus A380 following its retirement. Serviceable components including its powerplants, landing-gear and flight-control systems have been retained. The aircraft has been transferred to Falcon Aircraft Recycling, with which Emirates has signed a contract to re-use much of its structures and components. This includes memorabilia, revenues from their sale going to the Emirates Airline Foundation.

Aviation d'affaires

Bombardier new Toronto facility (3 novembre)

Bombardier's new \$400 million, 770,000-sq-ft facility at Toronto Pearson International Airport will open in 2023. It will use 60 percent less energy than the current Downsview plant. Measures include more natural lighting, improved heating, reduced water usage and updated processing systems with much lower greenhouse gas emissions. Bombardier will use electrically-powered ground equipment and install fuel farm tanks suitable for sustainable aviation fuel.

Argus TraqPak data (3 novembre)

Argus TraqPak reports that North American business aviation activity set a record in October with 323,000 flights, 6.9 percent more than in July. All categories increased led by fractional, up 44.8 percent year-over-year (YOY). Europe recorded 81,000 business aviation flights for the month, activity increased by 64.3 percent YOY, and more than 30 percent from October 2019.

Dassault Aviation /Ingenio Aerospace (1 novembre)

Dassault Aviation has selected Ingenio Aerospace's cockpit tablet arm to provide electronic flight bag mounting solutions for all in-production Falcon jets. Ingenio's arm provides a secure and robust in-flight mounting system for electronic tablets, including for the Apple iPad.

Défense

Missile propulsion technologies (4 novembre)

European missile manufacturer MBDA, French experimental battery producer Tiamat and the UK's Loughborough University have conducted low TRL assessments of proton-exchange membrane (PEM) fuel cells, sodium-ion batteries and a hybrid of the two as potential future sources of energy for missiles. The work was performed under the NESSY-II (New Sources of Energy II) project funded by the France/UK Materials and Components for Missile, Innovation and Technology Partnership (MCM-ITP).

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MRO

Shannon Engine Support (AerCap and Safran) (2 novembre)

Following its acquisition of GECAS, AerCap Holdings has signed a 20-year joint venture agreement with Safran Aircraft Engines making Shannon Engine Support ("SES") a 50/50 joint company between AerCap and Safran. SES, the world's largest lessor of CFM engines, will continue to provide lease engine support to CFM and operators of CFM56 and LEAP engines.

Drones - Advanced Air Mobility

Boeing (5 novembre)

Boeing is expanding its Loyal Wingman drone program in Australia to include a second aircraft. It is working with BAE Systems Australia, the Royal Australian Air Force and an Australian industry team of more than 35 companies to advance drone-piloted aircraft teaming technology.

Hybrid-electric propulsion architecture (4 novembre)

Under the guidance of Pipistrel's Vertical Solutions, eight European Union partners have concluded a project named MAHEPA (Modular Approach to Hybrid-Electric Propulsion Architecture) that explored alternative zero-emission propulsion for regional air transport. The group test flew two aircraft with prototype systems: a Pipistrel Panthera with a single fuselage, traditionally mounted propeller and retractable gear, and a H2Fly Hy4 with a dual fuselage and center-mounted propeller. The systems included electric drive, power generation module, fuel-cell system, liquid-cooled lithium-ion batteries and a battery management system.

ElectricAir (2 novembre)

ElectricAir's Pipistrel Alpha Electro aircraft has become the first all-electric aircraft type to make the 48-mile flight across New Zealand's Cook Strait. ElectricAir believes that this is a world record for the longest flight over water by an all-electric plane.

Spatial

Anywaves (4 novembre)

Anywaves vient d'être sélectionnée par OHB Sweden pour fournir les antennes de la mission européenne Arctic Weather Satellite, un projet initié par l'ESA. L'objectif est de lancer un satellite de démonstration afin de prouver l'utilité des mesures radiométriques dans l'amélioration des prévisions météorologiques. En cas de succès de la mission, le prototype débouchera sur le lancement d'une constellation d'une dizaine de satellites.

CNES/ United Kingdom Space Agency (4 novembre)

La France et le Royaume-Uni ont renouvelé leur collaboration dans le projet MicroCarb, un microsatellite dont l'objectif est de cartographier, à l'échelle planétaire, les sources et les puits de dioxyde de carbone (CO₂). Il sera le premier satellite européen dédié à cette mission.

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US Space Force (29 octobre)

The Space Force intends to issue a series of solicitations for commercial satellite communications bandwidth, equipment and services. It will award contracts worth up to \$2.3 billion in 2022 and 2023. The acquisition plan presented by the Commercial Satellite Communications Office (CSCO), covers bandwidths from L-band through Ku-band to X-band for a variety of US military organizations.

GHGSat (26 octobre)

GHGSat has won a \$557,000 contract from Innovation, Science and Economic Development Canada (ISED) as part of the Innovative Solutions Canada's Testing Stream for their Satellite Wide-Area Surveillance of Greenhouse Gas Emissions technology. GHGSat specializes in space and air-based methane detection and measurement.

Innovation

Safran (3 novembre)

Safran (Safran Electrical & Power) fournira à Flying Whales les systèmes de génération et de distribution électriques, ainsi que les convertisseurs de puissance et les batteries de chaque appareil dont le premier exemplaire doit voler en 2024.

L3 Harris (2 novembre)

L3Harris Technologies has launched its Competency Assessment Recording Application (CARA) to help improve pilot training. It will support trainers and instructors by collecting data based on observed behaviours, core pilot competencies and other inputs during training. It also helps deliver and assess more tailored training to meet airline-specific operational requirements.

Fuel cell propulsion certification (2 novembre)

MTU and EASA will collaborate on certification standards for fuel cell-based propulsion systems. MTU is developing a prototype hydrogen fuel cell powertrain to be flight tested on a Dornier 228 beginning in 2026, in collaboration with DLR.

Rolls-Royce and Qatar Foundation (2 novembre)

Rolls-Royce and the Qatar Foundation will enter into a long-term partnership to create a global centre for climate technology innovation with campuses in Qatar and the United Kingdom. The centre will "help entrepreneurs create and grow new climate technology businesses, aided by academic leadership, funds for R&D and early-stage venture capital investment".

Association for Advancing Automation (25 octobre)

The Association for Advancing Automation reports that orders for robotic systems increased by 67% in the second quarter versus the same period in 2020, a return to pre-Covid demand for automation. North American companies ordered 9,853 robots valued at \$501 million.

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