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Editor's Letter

Asia Pacific region will need over 17,600 new aircraft by 2040

Asia Pacific airlines will require 17,620 new passengers and freighter aircraft by 2040, with nearly 30% of these replacing older, less fuel-efficient models.

Airbus predicts that cargo traffic in the Asia Pacific will increase at 3.6% per annum, well above the global 3.1% average, and will lead to a doubling in airfreight in the region by 2040.

In the freighter market, said an Airbus spokesperson, the dedicated fleet in the region will increase from 350 aircraft today to 880 aircraft in 20 years, with demand for some 370 widebody freighters, including 230 newbuilds.

Airbus predicts passenger traffic growth in the Asia Pacific region of 5.3% per annum, accelerating the retirement of older aircraft.

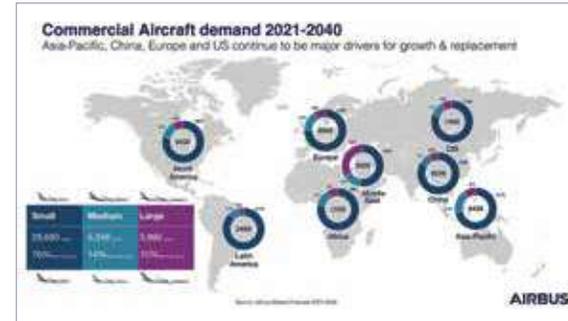
Globally, express freight boosted by e-commerce will grow at an even faster pace of 4.7% per year. Overall, the world's airlines will need some 2,440 freighters over the next 20 years, of which 880 will be newbuilds, reflecting strong cargo growth.

The Asia Pacific, home to 55% of the world's population, will see China, India, and emerging economies such as Vietnam and Indonesia being the principal drivers of regional growth, said Airbus.

GDP will grow at 3.6% per year compared to the world average of 2.5% and double in value by 2040. The middle class, who are the likeliest to travel, will increase by 1.1bn to 3.2bn and the propensity for people to travel is set to almost triple by 2040.

Of the demand for 17,620 aircraft, 13,660 are in the small category like the Airbus A220 and A320 family.

In the medium and long-range categories, Asia Pacific will continue to drive demand with some 42% of global



requirements. This translates to 2,470 medium and 1,490 large category aircraft.

Christian Scherer, chief commercial officer and head of Airbus International, said: "We are seeing a global recovery in air traffic and as travel restrictions are further eased the Asia-Pacific region will become one of its main drivers again. We are confident of a strong rebound in the region's traffic and expect it to reach 2019 levels between 2023 and 2025. "With an ever-greater focus on efficiency and sustainable aviation in the region, our products are especially well-positioned."

Scherer added: "Our modern portfolio offers a 20%-25% fuel burn and therewith CO2 advantage over older generation aircraft and we pride ourselves that all our aircraft products are already certified to fly with a blend of 50% SAF, set to rise to 100% by 2030.

"In addition, our **newly launched A350F** offers efficiency gains of 10% to 40% compared to any other large freighter, existing or expected, both in terms of fuel consumption as in CO2 emissions."



DEVENDER GROVER

We are on

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Miami Airport's cargo flying high into 2022 after a record-breaking year. Miami International Airport has experienced a breakthrough in air cargo, handling **2.7 million tonnes of freight in 2021**, overperforming its previous record of 2.3 million tonnes in 2020 by 17 percent.

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TIACA's 2022 Sustainability Report Reveals Sustainability Gains Momentum Within the Air Cargo Industry

The International Air Cargo Association (TIACA) releases the second annual comprehensive study undertaken on the sustainable transformation of the air cargo industry.

As part of TIACA's Sustainability program, launched in November 2019, the organization performed a widespread industry survey involving supply chain partners from across the globe and from each industry sector and business size. With a 62% increase in participation, this year's results reflect an even more comprehensive assessment of the industry. The responses have been analyzed and published to reflect how the industry has progressed compared to the 2020 "ground zero" first assessment. The report's findings will also feed TIACA's overall sustainability strategy and support enhanced work programs addressing each of the organization's three key areas: People, Planet, Prosperity, supported by innovation and partnership.

"Despite the challenges presented by covid these past 24 months, sustainability remains a key priority area for the industry and for TIACA as we must reflect the interests of the global society which we collectively serve. We must now take the next leap forward in setting specific targets measuring results and reporting with transparency.", stated **Glyn Hughes, TIACA Director-General**.

Key highlights of the report:

- 93% of respondents confirm their sustainability agenda is supported directly by their CEO
- Only 15% indicated Covid had a negative impact on their sustainability plans.

- 51% and 42% report that sustainability is a key factor for Shareholders and regulators respectively, large increases vs the 2020 report.
 - Only 50% share their Sustainability results externally, compared to 80% across all industries.
 - Fewer companies have dedicated resources and budgets vs 2020 report, minus 9% and 6% respectively.
 - 63% of respondents are focusing on reducing their energy consumption
 - Decarbonization activities vary greatly by industry sector.
 - 25% of respondents indicated they lacked awareness of the role air cargo plays in supporting society.
 - 79% of Airlines and 82% of airports responding are actively working on reducing the impact of noise on local communities.
 - 78% of responders, up from 65% previously, report that they have accelerated their digital transformation to support continuous improvement and operational excellence.
 - 70% report that their own sustainable development is critical to supporting business partners
 - The importance of attracting, retaining, and developing staff all showed dramatic improvements compared to the prior year, with 71% indicating they are actively working on improving the employee experience, up from 39% previously.
 - 73% are actively investing in training, up from 53% previously and 67% are actively advancing diversity and inclusivity up from 41% previously.



Top areas of focus

Beyond the defined People, Planet, and Prosperity categories, the report urges industry to take the following actions;

1. Set up concrete targets to accelerate their sustainability transformation
2. Measure progress made by collecting data and facts regularly
3. Communicate on achievements with transparency
4. Get recognized for the progress made

"This second annual report clearly demonstrates some great progress in a number of key areas, the increased focus on the people category is a crucial reflection of one of the challenges the industry has been facing, attracting and retaining staff. The report is also extremely valuable in helping establish where next for the TIACA sustainability program and we are excited about our upcoming initiatives to help move the industry forward. We are also examining our own sustainability developments and collaborative relationships are a critical aspect." stated **Steven Polmans, Chair of TIACA's Board of Directors**.

TIACA Announces the 3rd Sustainability Award results; United Airlines wins Corporate category



The International Air Cargo Association (TIACA) announced the results of the third edition of the Air Cargo Sustainability Awards, run in partnership with one of the leading industry IT solutions providers CHAMP Cargosystems. The Awards aim to recognize outstanding businesses and industry initiatives seeking to make air cargo more sustainable. There were two categories being judged, one for Start-Up/Small Business and the second for Corporate and established businesses.

The jury, comprised of 6 industry leaders and sustainability champions evaluated the submissions on a number of criteria, including impact on society and industry, ease of implementation, innovation and the wow factor.

“the quality and variety of the submissions were very impressive and

each would have been a worthy winner. We had the difficult task to select just one corporate winner and three finalists from the start-up and small business categories. All submissions were inspiring to review and indicates the spirit of innovation is very strong across the industry” stated a jury spokesperson

After the independent results were

tabulated TIACA announced United Airlines for its Eco-Skies Alliance program as the winner in the corporate category which is a new initiative for companies to come together and contribute to the purchase of sustainable aviation fuel, with over 20 major corporations have joined so far.

The Start-Up and Small Business category recognizes and encourages young growing businesses as well as small businesses building their presence in the air cargo industry and contributing to its sustainability transformation. The jury selected three organizations as finalists in this category and each will be invited to present at the Executive Summit where the live audience will add their voice to selecting the ultimate winner.

The winner will receive a USD 10,000 cash prize with the two runners up receiving USD 2,500 each.

After the results were tabulated, the jury selected these three entries as the finalists based on the judgment criteria;

- Mission GO unmanned systems ... Saving lives using unmanned aviation technology for organ transport
- WAVES ... Making sustainability visible through the use of cloud technology, establishing the Sustainability Management Platform (SMP)

- Xfret ... Promoting the development of cabin freight through an innovative container that can be placed on empty seats in commercial aircraft cabins

*“Firstly, I want to congratulate all the organizations that submitted an entry, the jury comments were very well received and focused on the overall high quality of the applications. I would also like to thank the jury members for their time and dedication in reviewing the entries and the results of their deliberations. And of course, it gives great pleasure to congratulate United Cargo for being selected as the overall corporate winner and to the three start-up / small business finalists. I look forward to their participation at the upcoming **Executive Summit in San Francisco.**” Stated **Steven Polmans, TIACA Chair.***



Record revenues for Air Canada Cargo

Air Canada reported a record cargo revenue of C\$1.5 billion (\$1.2 billion) in 2021 - an increase of over 60 percent compared to 2020 cargo revenue of C\$920 million (\$727 million).

In 2021, Air Canada operated a total of 10,217 cargo-only flights, compared to 4,235 cargo-only flights in 2020.

"In October 2021, Air Canada announced the start of a \$16 million project to expand and enhance Air Canada Cargo's cold chain handling capabilities for shipments such as pharmaceuticals, fresh food, and other perishables at its Toronto Pearson International Airport cargo facility. The project is part of Air Canada's strategy to further develop its cargo division, which also includes the introduction of additional freighter aircraft, the launch of dedicated freighter routes, and an expansion into the e-commerce delivery service,"

The airline introduced its first Boeing 767 dedicated freighter to the operating fleet in December 2021 and expects to have three more Boeing 767 converted freighters in service by the end of 2022.

"Air Canada Cargo has just concluded a year that saw it grow exponentially, solidifying our position as a market

leader in growth over the last 24 months," says Jason Berry, Vice President, Cargo, Air Canada.

"During the quarter, we welcomed our first Boeing 767-300 freighter aircraft, a milestone that will allow us to continue to deliver consistent cargo capacity to our customers on key trade lanes. And we continue to invest in key areas for Air Canada Cargo, expanding our footprint in Frankfurt, completing the first phase of enhancements to our cold chain facilities in Toronto, and the continued development of Rivo in the e-commerce space."

Full-year operating revenue was C\$6.4 billion (\$5.1 billion) compared to 2020 operating revenues of C\$5.8 billion (\$4.6 billion).

Operating loss in 2021 totalled C\$3 billion (2.4 billion), and unrestricted liquidity available to the airline was C\$10.4 billion (\$8.2 billion) at the end of December 31, 2021.

"The unpredictable course of Covid-19 made 2021 extremely challenging for Air Canada and the global airline industry," says Michael

Rousseau, President, and Chief Executive Officer, Air Canada.

"But the sequential and year-over-year improvement in Air Canada's fourth-quarter results shows the underlying recovery remains intact despite the Omicron variant."

Air Canada has purchased an additional 12 Airbus A220-300 aircraft in 2021 - six to be delivered in 2024 and six in 2025. "As of December 31, 2021, Air Canada had 27 Airbus A220-300 in its operating fleet." Air Canada also reached an agreement with Boeing, in October 2021, to push for the delivery of four Boeing 737 MAX aircraft. "As of December 31, 2021, Air Canada had 31 Boeing 737 MAX 8 in its operating fleet with the remaining nine Boeing 737 MAX aircraft expected to be delivered in the first half of 2022.

"The airline has been actively restoring its network with 118 stations served at the end of 2021, up from 70 at its start, and the average number of daily flights increasing to 665 in December 2021 from 245 in January 2021, Rousseau added.

Air Canada will add 3 freighters in 2022 to diversify, maintain cargo growth

Diving brief:

- Air Canada plans to add three dedicated freighters to its fleet in 2022 as the airline seeks to diversify its revenue streams in the face of declining passenger demand, said

Executive Vice President and Chief Commercial Officer Lucie Guillemette.

- Air Canada posted record cargo revenues last year, helped by the temporary conversion of passenger aircraft to all-cargo configurations, according to its fourth-quarter results. Now it is adding permanent cargo-only flights – it introduced its first Boeing 767 freighter in December the first of eight aircraft that will eventually make up its fleet of freighters.

- *“Air Canada Cargo’s sustained performance will validate our decision to return to fully dedicated cargo aircraft in order to take advantage of cargo market growth in both dedicated space and freighters,” Guillemette said.* “The freight business is an important part of our recovery and long-term growth, contributing to seasonality and diversification.”

Air Canada boosts cargo revenue as passenger numbers drop

Overview of the dive:

The COVID-19 pandemic has caused



demand for air travel to plummet, and airlines are still struggling to return to their pre-pandemic passenger activity levels. Freight operations, meanwhile, have been a bright spot for the industry – United Airlines and American airlines both reported record segment revenues in recent earnings calls.

The strong cargo performance also applies to Air Canada. The airline operated 10,217 cargo flights in 2021 alone, more than double the 4,235 it operated the previous year, according to its financial results. Passenger travel remains Air Canada’s primary source of revenue, but annual growth in passenger revenue (3%) has been significantly outpaced by its cargo business (63%) in 2021.

The use of converted passenger aircraft, which had seats removed from the passenger cabin to free up cargo space, supported these results. Air Canada plans to return all converted planes to passenger configuration by the end of 2022, executive vice president and chief financial officer Amos Kazzaz said on the call.

However, the airline still expects

to benefit from increased air cargo demand through the use of its new dedicated freighters. Air Canada is also investing \$16 million to enhance its cold chain processing capabilities at its cargo facility at Toronto Pearson International Airport.

“The project is part of Air Canada’s strategy to further develop its cargo division, which also includes the introduction of additional cargo aircraft, the launch of dedicated cargo routes, and an expansion of the e-commerce delivery service.”

Several carriers other than Air Canada are expanding their cargo fleets to take advantage of new demand. CMA-CGM Group recently agreed to buy four freighters from Airbus, while DHL announced an order for nine converted freighters from Boeing in November.

“With sustained demand for air cargo linked to the expansion of e-commerce and the speed and reliability of air cargo, we expect the global cargo fleet in 2040 to be 70% larger than the pre-Secondary fleet. pandemic,” Boeing Chairman and CEO David Calhoun said.



Emirates SkyCargo enhances US Midwest connectivity

Chicago Rockford becomes Emirates SkyCargo's latest cargo destination in the US

Emirates SkyCargo has announced that it has commenced freighter flights to Chicago Rockford International Airport (RFD) from 1 February 2022, further expanding its route network and connectivity in North America.

Emirates SkyCargo will operate scheduled and ad-hoc flights to Chicago Rockford on a combination of Boeing 777-F and Boeing 777-300ER mini freighter aircraft. The air cargo carrier's new service will complement the cargo connectivity it offers in the US Midwest region through O'Hare International Airport, Chicago (ORD), and Rickenbacker International Airport, Columbus (LCK). Customers in the region can now take advantage of the additional choice and flexibility to transport their cargo across Emirates'

global network of more than 140 destinations.

Nabil Sultan, Emirates Divisional Senior Vice President said, "Emirates SkyCargo is delighted to commence operations to Chicago Rockford International Airport, adding yet more connectivity to further boost trade between the US Midwest and the rest of the world. We would like to thank the RFD airport team and other local partners for their support in gearing up for our freighter operations."

Mike Dunn, Executive Director of Chicago Rockford International Airport, said: "RFD continues to grow from strength to strength and securing our first international scheduled airline air cargo service with a major global airline like Emirates marks a major milestone in the history of our airport. On behalf

of the Board of Commissioners at RFD, I want to take this opportunity to thank all the team at Emirates for the tremendous amount of hard work, professionalism, and commitment they have shown in making this project happen. I also want to thank my cargo team and the team at Emery Air for stepping up and coming through a rigorous compliance process. We have all been on a long journey to get to this point, but is a journey that is now really only just beginning and where we look forward to developing a long-term relationship with Emirates.

"This exciting new air cargo service will provide added choice for importers and exporters looking to ship into and out of the Chicago Midwest market and wider catchment area, where this new network combination of Emirates and RFD can play a vital role in providing the flexibility, cost savings and efficiencies air cargo shippers are looking for as we enter a new era of air cargo operations."

Love is in the air

The top 5 Valentine's Day gifts that fly on Emirates SkyCargo



In the three seconds that it would take for you to read this sentence, approximately 10 pieces of cargo would have been processed through Emirates SkyCargo's hub in Dubai. The air cargo carrier transports more than 250,000 pieces of cargo each day, including vital commodities that touch people's lives – from life-saving medicines to tasty and fresh produce from across the world. Every year, during the weeks leading up to Valentine's Day on 14 February, Emirates SkyCargo also transports some of the most popular gifts offered for Valentine's Day.

"Emirates SkyCargo is an important facilitator of cross-border trade and commerce across the world. However, on a more individual level, we also play a role in spreading joy in people's lives. During the two or three weeks leading up to Valentine's we always see a sharp increase in the transport of popular gifts for Valentine's Day such as flowers, perfumes and chocolates. We take our commitment to delivering smiles around the world very seriously," said Dennis Lister, Emirates VP Cargo Commercial Development.

Wondering what to buy your Valentine this year? Here are the top five commodities that are transported on Emirates SkyCargo for Valentine's Day:

Flowers: Flowers and roses in particular are by far the most popular gifts for Valentine's Day and in the month of January 2022 more than 3,000 tonnes of flowers were flown by Emirates SkyCargo freshly harvested from farms in Kenya, Ecuador, Colombia, Ethiopia, and many other countries. A majority of the flowers are first flown to the Netherlands, home to the world's largest flower auction market, and then redistributed to other global markets.

Chocolates: Another universal favourite, chocolates are popular gift options, not just for Valentine's Day but for other celebrations as well. In 2021, Emirates SkyCargo transported more than 150 tonnes of premium chocolate around the world during the months of January and February with a sharp surge during the week before Valentine's Day. Brussels, Zurich and Düsseldorf are the main European points where chocolates are loaded on Emirates' flights ahead of Valentine's Day. Closer to our home, Beirut is also a major exporter of chocolates catering to markets in the Middle East.

High-end perfumes: Perfumes are also in high demand as gifts in the weeks leading up to the big day. Over the last week of January alone, Emirates SkyCargo moved more than 200 tonnes of high-end perfumes from cities in France, Spain, Switzerland,

and the Netherlands to the rest of the world, just in time to stock retail shelves ahead of Valentine's Day.

Watches, Jewellery: High-end watches, jewellery and accessories are also favoured gifting options for special occasions. Between mid-January and early- February there is a marked increase in the volume of high-end watches and other accessories that are shipped on Emirates' flights. Zurich, Geneva and Hong Kong are the main points of origin for watches that are then distributed to the rest of the world. Last year, Emirates SkyCargo transported more than 1,200 tonnes of high-end watches in January and February.

Electronic gadgets: Last but not least electronic gadgets and especially items such as mobile phones are also in high demand as gift items for Valentine's Day with shipments witnessing a rush in the last few days to Valentine's Day. In the two-week period leading up to Valentine's Day, Emirates SkyCargo flew more than 1,500 tonnes of electronic gadgets from manufacturing destinations in Asia to consumer markets across the world.

Emirates SkyCargo is the air freight division of Emirates, offering cargo capacity to customers over a global network of more than 140 destinations across six continents.



Emirates SkyCargo welcomed a senior delegation from Mexico at its headquarters

Emirates SkyCargo welcomes senior delegation from Mexico in Dubai

operates cargo services from two destinations in Mexico- Mexico City and Guadalajara. The air cargo carrier commenced cargo flights to Mexico City in April 2014 and to Guadalajara in October 2020. Overall, the cargo carrier has transported more than 26,000 tonnes of cargo into and out of the country in 2021 facilitating trade with global markets and supporting exports.

Perishables are the most commonly exported commodities from Mexico and between January and December 2021, berries, avocados, mangoes and jackfruits were the main perishables that were uplifted by Emirates SkyCargo from Mexico City and Guadalajara. Berries, which formed more than 10% of the total exports from Mexico on Emirates SkyCargo, were mainly flown to destinations in the Middle East and in Europe.

Emirates SkyCargo ensures that fruits and vegetables from Mexico retain maximum freshness during the journey to their destination through Emirates Fresh, a specially designed three-tiered transportation product to help maintain the freshness of perishables during air transportation. Emirates SkyCargo transports between 500-700 tonnes of food items on its flights around the world on a daily basis.



Nabil Sultan, Emirates Divisional Senior Vice President Cargo welcomed Tatiana Clouthier, the Mexican Secretary for Economy

Emirates SkyCargo welcomed Tatiana Clouthier, the Mexican Secretary of Economy and a senior delegation to its headquarters in Dubai earlier this week. Nabil Sultan, Emirates

Divisional Senior Vice President, Cargo met with the delegation and discussed Emirates SkyCargo's support to Mexican exports and imports. Emirates SkyCargo currently



Emirates SkyCargo hosts delegation (L-R) Ambassador of Spain to the UAE, Spanish Minister for Agriculture, Fisheries and Food and Emirates DSVP Cargo

Emirates SkyCargo hosts ministerial delegation from Spain

Emirates SkyCargo welcomed Luis Planas Puchades, the Spanish Minister for Agriculture, Fisheries and Food; Iñigo de Palacio España, Ambassador of Spain to the UAE and a senior delegation from Spain at its headquarters last week in Dubai.

Nabil Sultan, Emirates Divisional Senior Vice President, Cargo welcomed the Minister and outlined how the air cargo carrier supports Spanish agri-businesses and perishables exporters by helping transport premium exports rapidly from Spanish gateways to global markets through Dubai. Emirates SkyCargo also reaffirmed its commitment to remain a strong partner to Spanish exporters of perishables

and other commodities in the years to come.

Emirates SkyCargo and Spain

Emirates SkyCargo commenced freighter operations in Spain in July 2007 with scheduled flights to Zaragoza. Due to an increase in demand, the air cargo carrier eventually established freighter services to Madrid and Barcelona in addition to the cargo capacity provided on passenger flight services to the two cities. During the year 2021, Emirates SkyCargo exported more than 30,000 tonnes of cargo from Spain out of which more than 1750 tonnes were fruits and vegetables.

Lufthansa Cargo launches new medium-haul network with A321 freighters



A321F to complement freighter network on medium-haul destinations starting in March

From March 1, Lufthansa Cargo customers will also be able to book their cargo on converted A321 medium-haul freighters. With the start of operations on March 15, Lufthansa Cargo will gradually complement the global route network with Istanbul (IST), Tel Aviv (TLV), Malta (MLA), Tunis (TUN), Dublin (DUB), and Manchester (MAN) by operating these freighters. In the summer schedule, the carrier will also add flights to Cairo (CAI) starting March 29. The partially new stations in the freighter network will be served two to three times a week from and to Frankfurt (FRA). The A321F will make its first commercial flight from Frankfurt to Dublin on March 15, 2022. Lufthansa Cargo is thus responding to the continuing growth in demand from the eCommerce industry and can offer customers even more capacity and additional fast connections.

“With the added medium-haul

freighters, we are opening up a whole new strategic business segment. In the future, the A321F will offer attractive same-day and eCommerce solutions within Europe and to selected medium-haul destinations, and the new network represents a major step towards the fast-growing eCommerce segment,” explains Ashwin Bhat, Chief Commercial Officer Lufthansa Cargo. “On one hand, available capacity in the global air freight market continues to be scarce and, at the same time, end consumers expect short delivery times for their ordered goods. With the medium-haul freighter, we can close this gap and continue to reliably and quickly provide our customers with the capacity they need with the same quality and expertise for which Lufthansa Cargo is known.”

The conversion of the first aircraft with the registration D-AEUC has already been completed. Among other

things, the floor has been reinforced accordingly, a roller system for moving cargo and a large cargo door were installed. A total of 14 pallet and container positions in the main deck and 10 in the lower deck are available to Lufthansa Cargo customers per aircraft. This results in a payload of 28 tons per aircraft. The second medium-haul freighter is expected to enter service in late summer. Both will be operated under a wet-lease agreement by Lufthansa CityLine, each under Lufthansa Cargo flight numbers. Lufthansa CityLine, as a Lufthansa Group company, has been working intensively on the technical and operational preparations of this first A321 converted freighter. The twin-engine Airbus A321 is one of the most versatile aircraft in its class: Being able to carry containers in the main deck, it offers fast loading and unloading and therefore enables very efficient flight operations.

Lufthansa Cargo now only flies with electronic airwaybills

Digitization of paper AWBs as of summer flight schedule continues to drive the digital transformation of the air cargo industry



and consistent top positions in global rankings,” said Dr. Jan-Wilhelm Breithaupt, Vice President Global Fulfillment Management Lufthansa Cargo. “We are very pleased to have achieved our goal of transporting paperless shipments and avoiding unnecessary printouts along the process chains together with our customers and partners.”

The newly introduced service is mandatory on feasible

In 2020, IATA announced an industry goal to achieve 100% eAWB by the end of 2022, meaning that all shipments will be carried only with electronic air waybills (eAWB). To meet this goal and continue to lead the way in digitizing the entire air cargo industry, Lufthansa Cargo is now taking a major step towards completely paperless shipments: starting with the summer schedule on March 27, 2022, all shipments on feasible lanes will be carried with electronic air waybill - eAWB only. In addition, the airline is introducing a “paper-to-eAWB” service, through which the few remaining paper-based AWBs will be digitized at shipment acceptance and then continue to accompany the shipment as an eAWB.

“Over the past few years, we have driven many digitization initiatives in the air cargo industry. In fact,

eliminating paper AWBs in the future could be one of the most important steps. A majority of our customers already use eAWB exclusively. With the new service, we can now easily take all customers with us on our digitization journey and enable them to take the step towards paperless transports as well,” explains Ashwin Bhat, Chief Commercial Officer at Lufthansa Cargo.

“Our goal is to make communication with our customers easier, faster, and better with the help of our digital services. We have implemented the eAWB process as an industry standard of IATA continuously and worldwide at Lufthansa Cargo since 2014. A five-year data quality initiative that effectively de-cluttered the data interface between customers and Lufthansa Cargo was, among other things, an important cornerstone that enabled sustainable eAWB penetration

lanes for all forwarding companies that do not yet use electronic air waybills. Routes that are eAWB-feasible are those for which the regulatory basis for the use of electronic air waybills is in place. This means that all shippers who have not been able to use eAWB so far due to their own infrastructure can also switch to paperless transport. If local regulations in a country require the presentation of a paper AWB, Lufthansa Cargo will re-produce the AWB and it will accompany the shipment on the flight. In addition to more efficient transport routes and faster information flows, paper is also saved during transport. This sustainability aspect also plays into the United Nations’ sustainability goals “Climate Action” and “Industry, Innovation, and Infrastructure,” to which Lufthansa Cargo has committed itself along with other goals.

Lufthansa Cargo and Röhlig Logistics are partners in climate protection



Lufthansa Cargo and the owner-managed logistics company Röhlig Logistics are joining forces in a partnership for climate protection and will offer customers a sustainable transport service on selected routes with immediate effect. In doing so, Röhlig Logistics relies on investments in certified climate protection projects in order to effectively compensate for CO2 emissions that arise during the transport of airfreight. Röhlig Logistics is initially committed to decarbonizing air freight on a total of four selected freight routes. This is expected to offset around 1,000 tonnes of CO2 emissions.

Philip W. Herwig, the Managing Partner at Röhlig Logistics, explains: "Röhlig is committed to promoting sustainability in all its business activities and decision-making processes. Therefore, we are

Röhlig Logistics invests in climate protection projects to compensate for CO2 emissions on four freight routes

particularly pleased to be a partner of Lufthansa Cargo and to take a measurable step in our sustainability efforts with this commitment. With immediate effect, we are offering our customers CO2-neutral freight transport on selected routes. In doing so, 100 percent of the CO2 emissions are offset by supporting projects of the international and non-profit climate protection organization climate."

"We are delighted to have Röhlig

Logistics as another partner at our side, actively contributing to making air freight transports more sustainable. Our goal is to become the most sustainable air cargo airline. That is why we are investing in a modern fleet, innovations such as AeroShark, which reduces air resistance, and the latest generation of lighter loading equipment. These investments help to significantly reduce our CO2 emissions. On the other hand, we offer our customers sustainable transport solutions that reduce the remaining carbon footprint. In addition to Sustainable Aviation Fuel, this also includes offsetting CO2 emissions by investing in high-quality climate protection projects," explains Dorothea von Boxberg, CEO at Lufthansa Cargo.

On the following routes, all CO2 emissions of freight carried on behalf of Röhlig Logistics are 100 percent offset:

- from Frankfurt/Main (FRA) to Atlanta (ATL)
- from Frankfurt/Main (FRA) to Mexico City (MEX)
- from Frankfurt/Main (FRA) to Shanghai (PVG)
- from Hong Kong (HKG) to Frankfurt/Main (FRA)

Offsetting CO2 through the promotion of myclimate projects

CO2 emissions that have already been emitted can be nullified by means of high-quality offsetting projects. This works because the climate is only changed by the number of net greenhouse gases. It doesn't matter where greenhouse gases are emitted and where they are saved. For example, the projects replace fossil energy sources with renewable energy or energy-efficient technologies, thus reducing CO2 emissions, such as using solar cookers instead of firewood. Another option is to protect endangered forests, whose trees extract CO2 from the atmosphere over their lifetime, convert it and store it as carbon. The amount of emissions

saved from the projects is calculated and can be passed on to companies in the form of emission reduction credits - so-called certificates - in quantities appropriate to their needs. On the basis of the certified CO2 savings or reductions, there is thus the possibility of offsetting CO2 emissions that arise, for example, in the context of freight transport. Another advantage is that the compensation mechanism via high-quality projects not only includes climate protection measures that demonstrably save CO2, but the projects also always bring local benefits for the population and the environment. Jobs are created, infrastructures improved or health risks reduced, biodiversity protected or educational opportunities improved.

Röhlig Logistics relies on a selection of ten carbon offset projects curated by the Lufthansa Group and run by the non-profit organization myclimate, which applies only the strictest, independent quality standards, such as Gold Standard and Plan Vivo, when selecting and designing carbon offset projects. The

offsetting is handled via Compensaid, the Lufthansa Group's digital platform for CO2-neutral flying.

The following projects are supported within the framework of compensation:

- Brazil: *Wood-Based Biomass instead of Gas Boiler in Brazil*
- Brazil: *Electricity from FSC Wood Waste in the Amazon*
- Burundi: *Efficient Cook Stoves for Returnees in Burundi*
- India: *Biogas plants for 9,000 Families in India*
- Kenya: *Savings Groups Enable Women to Afford an Efficient Cook Stove in Kenya*
- Madagascar: *Back to the Green Island with Efficient and Solar Stoves in Madagascar*
- Nicaragua: *Community Reforestation in Nicaragua*
- Nigeria: *Efficient Cook Stoves reduce Emissions in Nigeria*
- Ruanda: *Efficient Cook Stoves save Habitat for the last of the Mountain Gorillas in Rwanda*
- Tanzania: *Protection of Tanzanian Forests for Indigenous Peoples, Wildlife and the Climate*

Emirates SkyCargo adds Chicago Rockford flights



Emirates SkyCargo has started freighter flights to Chicago Rockford International Airport (RFD) as it looks to expand connectivity in North America.

The Dubai-based carrier said that from February 1 it has been operating scheduled and ad-hoc flights to Chicago Rockford on a combination of

Boeing 777F and Boeing 777-300ER PAX freighters.

The air cargo carrier's new service will complement the cargo connectivity it offers in the US Midwest region through O'Hare International Airport, Chicago (ORD), and Rickenbacker International Airport, Columbus (LCK).

Nabil Sultan, Emirates divisional

senior vice president, said: "Emirates SkyCargo is delighted to commence operations to Chicago Rockford International Airport, adding yet more connectivity to further boost trade between the US Midwest and the rest of the world. We would like to thank the RFD airport team and other local partners for their support in gearing up for our freighter operations."

Mike Dunn, executive director of Chicago Rockford International Airport, added: "This exciting new air cargo service will provide added choice for importers and exporters looking to ship into and out of the Chicago Midwest market and wider catchment area, where this new network combination of Emirates and RFD can play a vital role in providing the flexibility, cost savings and efficiencies air cargo shippers are looking for as we enter a new era of air cargo operations."

Gaining further altitude: **DB Schenker and Lufthansa Cargo** extend their CO₂-neutral air freight offer

- *Continuation of regular cargo flights between Germany and China*
- *Almost 21,000 tons of emissions to be avoided during the summer schedule*
- *100th biofuel covered flight coming up*
- *“Alternative fuels help us to realize change today”*

Essen/Frankfurt, March 2, 2022 – DB Schenker and Lufthansa Cargo have decided to continue their fossil-free freighter flights between Frankfurt (FRA) and Shanghai (PVG). The joint offer towards greener logistics will extend until at least October 2022. By utilizing sustainable aviation fuel (SAF) and additional compensation, they will save another 21,000 tons





of CO₂e. Lufthansa Cargo and DB Schenker have saved 31,000 tons of CO₂e since starting their cooperation end of 2020. The weekly flight rotation continues to be the world's only regular full charter fully covered by SAF. On March 25, the partners will conduct their 100th joint greenhouse gas-neutral flight.

Thorsten Meincke, Global Board Member for Air & Ocean Freight at DB Schenker: "It is our unshaken mission to build a carbon-neutral future for our customers and society at large. With our long-term partner, Lufthansa Cargo, we will now continue our carbon-neutral flight offer and as well as financial commitment. Alternative fuels help us to realize change, not just as a vision for the future but today. We would love to welcome even more customers who want to walk the talk with us."

Ashwin Bhat, Chief Commercial Officer at Lufthansa Cargo: "We are very pleased on extending our cooperation with our global partner, DB Schenker. Together we operate

completely CO₂-neutral flight rotations between Asia and Europe as part of our summer flight schedule. DB Schenker has already committed to using about 7,500 tons of Sustainable Aviation Fuel in 2022, which is a remarkable contribution to decarbonizing air freight."

DB Schenker and Lufthansa Cargo piloted the concept of a fully SAF-covered intercontinental freighter rotation between Frankfurt and Shanghai in November 2020. A regular charter connection was launched in April 2021 and extended throughout the winter flight schedule. The launch year's customers comprise a range of global brands including Siemens Healthineers, Mercedes-Benz, ZF, Merck, Nokia and Lenovo.

SAF is produced from renewable waste and residue raw materials such as used frying oil. The CO₂ released during combustion in the engine is only the CO₂ removed from the atmosphere during the photosynthesis phase of the plants employed to produce the oils SAF is refined from.

For each cargo rotation from

Frankfurt to Shanghai and back, the demand of 174 tons of conventional kerosene will be covered by the purchase of SAF, which will then be fed into the refueling system at Frankfurt Airport. This corresponds to 217,500 liters of SAF per week, which DB Schenker will use during the summer flight schedule. Thus, around 520 tons of CO₂e emissions will be saved each week by SAF alone. In addition, DB Schenker offsets a further 150 tons of CO₂e emissions generated during the transport and processing of SAF through certified carbon offset projects. As a result, the freight flights are entirely CO₂-neutral. DB Schenker and its customers can include the CO₂ emissions saved by using SAF in their carbon footprint on a pro-rata basis. Lufthansa Cargo issues corresponding certificates for this purpose.

The 100th one-way greenhouse gas-neutral freighter flight will take place on March 25, going westbound from Shanghai to Frankfurt. It will carry the flight number LH8405 and will be operated by a Boeing 777F.



Turkish Cargo Incorporates All of Its Operational Processes in SMARTIST, its New Home

Turkish Cargo now incorporates all of its air cargo transportation operations in SMARTIST, the Mega Cargo Facility.

Raising its bar for the triumph more and more by interconnecting its wide flight network that sweeps the continents with the unrivaled geographical advantage of Turkey, Turkish Cargo now incorporates all of its air cargo transportation operations in SMARTIST, the Mega Cargo Facility. Having moved the cargo operations, it carries

out by means of the passenger flights, to the Istanbul Airport following its opening in April 2019, Turkish Cargo remained to continue its freighter operations at the Ataturk Airport. Since its infrastructure has been made available entirely, the air cargo brand moved also its freighter operations to its Mega Cargo Facility at the Istanbul Airport by means of a relocation operation that took 72 hours. Having said goodbye to the Ataturk Airport by such a massive relocation, Turkish Cargo will from now on carry out all of its operational processes as based in SMARTIST, the new hub for the air cargo logistics.

Turhan Ozen: "With SMARTIST, our new home, we are ready for the future more than we have been ever before."

Regarding the start of the full-capacity operation of SMARTIST, **Turhan Ozen, Chief Cargo Officer of Turkish Airlines**, remarked as follows; "During the last 3 years, we carried out a highly substantial operation in both of our hubs. While we made use of our freighters at the Ataturk Airport, we benefited from our passenger aircraft and the paxfre* capacity at the Istanbul Airport. We performed approximately 30 thousand flights, 23 thousands of which were performed by making use of our freighters and 6 thousands of which were by paxfre, and we transported more than 4 million air cargo shipments, 2.5 million tons of which were transported from/to the Ataturk Airport and 1.8

million tons of which were transported from/to the Istanbul Airport.

Now, we are gathering the air cargo operations which we have been carrying out triumphantly on "dual hub" basis without compromising our service quality, under a single roof at the Istanbul Airport. Thanks to SMARTIST, our new home with all of its processes equipped with autonomous and robotic systems, we as Turkish Cargo, the air cargo bridge of Turkey, are now ready for the future more than we have been ever before."

It will be the new hub for the global logistics

SMARTIST, which is designed to serve as the biggest industrial building under a single roof at the Istanbul Airport, will achieve an annual capacity of 4 million tons at an area of 340.000 square meters upon the completion of all of its phases. The facility, equipped with the smart technologies such as Augmented Reality, Automatic Storage Systems, Robotic Process Automation and Unmanned Ground Vehicles, will take the unique service quality of Turkish Cargo much further in respect of operational speed and quality. The mega facility will also highlight the intercontinental location of Istanbul and serve as a gate that is excellent for the trade between the East and the West. Thus, it will be ensured that Istanbul becomes the logistics center in the world by directing a major portion of the air cargo traffic in the world to

the new Hub at the Istanbul Airport.

Relocation of 4125 equipment of 80 various types

As part of the ultimate relocation operation, monitored simultaneously by the senior executives of Turkish Cargo, TGS and the moving company at the Relocation Control Center established at the Ataturk Airport, 160 services were performed by 50 trucks. During the operation whereby the trucks covered a distance of approximately 16 thousand kilometers, corresponding to the distance between Turkey and New Zealand, 4125 equipment of various types, owned by TGS and Turkish Cargo, were relocated from the Ataturk Airport to the Istanbul Airport.

A goodbye flight to the Ataturk Airport

Turkish Cargo aircraft, which have departed for the last time from the Ataturk Airport, which has hosted Turkish Airlines, the flag carrier of Turkey for 89 years, landed at the Istanbul Airport upon the completion of their international routes. Following the massive relocation, Turkish Cargo said goodbye to the Ataturk Airport by means of its ISL-KRT (Ataturk Airport - Khartoum, Sudan) flight, numbered TK6455, which was operated by Airbus 330F aircraft.

**Paxfre; a cargo flight operated by a passenger flight without any passenger on board*



Lynn Fritz joins the TIACA Hall of Fame



Lynn Fritz former Chairman and CEO of the Fritz Companies has been chosen as the 2021 TIACA Hall of Fame Recipient.

Lynn Fritz a visionary of the global logistics industry, believed that as the world became more economically integrated, Fortune 1000 companies would require firms that could help them in all of the functions related to import/export, including transportation, warehousing, and transaction processing.

Lynn foresaw that they would look for alternatives, and that companies that could manage all of their international logistics would be extremely well positioned.

Beginning in 1971, the company focused on two complementary objectives: becoming the information processing leader in the industry and targeting large national accounts that would require the use of international logistics services.

Fritz companies ultimately added blue-chip companies such as Sears, Boeing, Federal Express, McDonald's, Microsoft, and Polaroid to their portfolio of international logistics clients.

To ensure visibility for his clientele

Fritz Companies introduced FLEX – the Fritz Logistics Expediting System, an automation platform that supported his business.

FLEX was a complete on-line tracking and management system that controlled all functions, from purchase order to delivery.

The attractiveness of Fritz's services was reflected in its results and subsequent years saw international growth and company expansion.

Under his stewardship, Fritz Companies was transformed from a small domestic documentation company to a global organization of 10,000 employees in 120 countries.

His enduring contribution redefined a fragmented and limited services industry through the use of technology.

In 2001, this successful growth strategy resulted in Fritz Companies being acquired by UPS launching them into the large freight shipment sector.

Lynn didn't stop there, together with his wife Anisya, he created Fritz Institute to assist humanitarian organizations in delivering aid more effectively in the chaos of disasters.

Since then, Fritz Institute has been credited with numerous innovations in the effective delivery of disaster relief.

"Lynn Fritz's story is truly one of a visionary." **stated Sebastiaan Scholte, Chair of TIACA's Chairman's Council.**

"He had a clear vision of the importance our industry would play in the global economy and understood the impact technology would have far ahead of his time".

"Delighted to join the other very worthy recipients of this award, and for TIACA's recognition of the service and coordination elements around the movement of International Air Cargo."

Lynn Fritz

Lynn Fritz will be formally inducted into the Hall of Fame at the Executive Summit in San Francisco, CA, March 22-25.



Turkish Airlines reported a 47 percent increase in cargo revenue to \$4 billion for the year ended December 31, 2021 compared to \$2.7 billion in 2020 on cargo operations continuing at full capacity with freighters and about 15 wide body passenger aircraft being utilised for cargo operations. While cargo revenue carried by passenger aircraft more than doubled (161 percent) to \$1.2 billion, revenue from cargo aircraft operations was up 25 percent to \$2.8 billion.

Turkish Airlines saw its cargo revenues rapidly increase last year on the back of volume improvements and higher prices.

The carrier saw its cargo revenues for last year increase by 48% year on year to \$4bn on the back of a 26% increase in cargo volumes to 1.9m tons.

Higher industry rates would also have contributed to the revenue improvement.

The carrier said the increase in volumes positioned it as the world's

fifth largest cargo carrier (excluding integrators) in terms of tons carried, according to IATA statistics.

The carrier's performance in cargo now exceeds pre-pandemic 2019 levels in both revenues and traffic, which stood at \$1.7bn and 1.5m tons two years ago.

Turkish Airlines said that it now had a market share of 5.2% for both cargo revenue and cargo traffic (FTK).

Meanwhile, cargo revenues now account for 37.6% of total company

revenues compared with 12.8% in 2019.

Cargo capacity for the year increased by 22% compared to 2019 levels as it has continued to expand its freighter fleet.

By the end of the year, the airline was operating 20 freighters – 10 A330-200Fs, eight B777Fs and two unspecified wet-lease aircraft.

Turkish also continues to operate PAX-freighter aircraft.

"Cargo operations are continuing at full capacity with freighters and about 15 wide body passenger aircraft are being utilized for cargo operations," the company said.

"As a result, 47% increase was recorded in 2021 fiscal year cargo revenues, the contribution of cargo operations to total revenue and profit increased significantly compared to 2020 fiscal year.

"Recovery in passenger operations leads to rising supply of belly cargo capacity which in turn positively impacts total cargo capacity."



Boeing Launches 777-8 Freighter to Serve Growing Demand for Cargo, Enhanced Environmental Performance

- *Qatar Airways, one of the world's largest cargo carriers, orders up to 50 777-8 Freighters, expanding its commitment to the Boeing 777X family*
- *777-8 Freighter will be world's largest twin-engine cargo jet with the most payload capacity and a 25% improvement in fuel efficiency, emissions and operating costs*
- *U.S. Commerce Secretary Gina Raimondo and His Excellency, Ambassador Sheikh Mishaal bin Hamad Al Thani, and Director of the White House National*

Economic Council Brian Deese witness the record order signing during White House ceremony

- *Boeing and Qatar Airways also sign Memorandum of Understanding for up to 50 737-10s, the largest 737 MAX jet*

Boeing has launched the new 777-8 Freighter and expanded its market-leading 777X and freighter families of jetliners with an order for up to 50 aircraft from one of the world's largest cargo carriers, Qatar Airways.

Qatar Airways will be the 777-8 Freighter launch customer with a firm order for 34 jets and options for 16 more, a total purchase that would be worth more than \$20 billion at current list prices and the largest freighter commitment in Boeing history by value. The order also supports hundreds of U.S. suppliers from across 38 states, will sustain more than 35,000 U.S. jobs, and provide the American economy with an annual estimated economic impact of \$2.6 billion during the contract's delivery period.

Featuring advanced technology from the new 777X family and the proven performance of the market-leading 777 Freighter, the 777-8 Freighter will be the largest, longest-range and most capable twin-engine freighter in the industry. With payload capacity nearly identical to the 747-400 Freighter and a 25% improvement in fuel efficiency, emissions and operating costs, the 777-8 Freighter will enable a more sustainable and profitable business for operators.

At the White House, **Commerce Secretary Gina Raimondo, His Excellency Ambassador Sheikh Mishaal bin Hamad Al Thani, Director of the White House National Economic Council Brian Deese, and Boeing President and CEO Dave Calhoun** joined the formal signing by Boeing Commercial Airplanes President and CEO Stan Deal and Qatar Airways Group Chief Executive, His Excellency Mr. Akbar Al Baker, who reaffirmed the airline's commitment to the 777X family with the record-breaking 777-8 Freighter deal. First delivery of the new freighter is anticipated in 2027.

"Boeing has a long history of building market-leading freighter aircraft and Qatar Airways is honored to have the opportunity to be the

launch customer for the 777-8 Freighter, an aircraft which will not only allow us to further enhance our product offering for our customers, but also help us meet our objectives to deliver a sustainable future for our business," said Mr. Akbar Al Baker. "Today marks a great day in the ever-building and strong relationship between Qatar Airways and Boeing. We certainly push Boeing hard to deliver upon our expectations, and the team at Boeing consistently strives to meet and exceed our expectations, giving the opportunity for us to be here today to launch the most significant new freighter aircraft for a generation."

"We are delighted to launch Boeing's next great cargo airplane – the 777-8 Freighter – with Qatar Airways, one of the world's largest cargo carriers and our partner since the airline began operations 25 years ago," said Deal. "Our team is ready to create an airplane that will serve them well for many decades. Qatar Airways' selection of the efficient 777-8 Freighter is a testament to our commitment to provide freighters with market-leading capacity, reliability and efficiency."

Deal added, "We are proud that Boeing provides over 90% of the world's dedicated freighter capacity. With global supply chains under pressure and high demand for e-commerce, the performance and capabilities of the fleet is more important than ever."

Boeing is designing the 777-8 Freighter, the newest member of the 777X family, to maximize efficiency and environmental performance. The widebody family features engineering design improvements and innovative technologies, including a new carbon-fiber composite wing and new fuel-efficient engines. With a range of 4,410 nautical miles (8,167 km), the 777-8 Freighter has a maximum structural payload of 118 tonnes, allowing customers to make fewer stops and reduce landing fees on long-haul routes.

Boeing will build the 777-8 Freighter

in its Everett, Wash., factory. The company has invested more than \$1 billion into the Everett site to support 777X production and sustain thousands of local jobs for decades to come.

As part of today's agreement, Qatar Airways will convert 20 of its 60 777X family orders to the 777-8 Freighter. Qatar Airways is also ordering two current 777 Freighters – Boeing's best-selling freighter of all time – to capitalize on the buoyant air cargo market. Customers from around the world have ordered more than 300 777 Freighters since the program began in 2005.

Boeing and Qatar Airways also signed a Memorandum of Understanding for a firm order of 25 737-10 aircraft and purchase rights for 25 additional airplanes. The total value of this 737-10 commitment is nearly \$7 billion at current list prices. The largest model in the MAX family, the 737-10 seats up to 230 passengers in a single-class configuration and can fly up to 3,300 miles. The fuel-efficient jet can cover 99% of single-aisle routes around the world.

"Qatar Airways very much looks forward to adding the 737-10 to its fleet, with this new variant of the 737 being ideally suited to our short-haul network, allowing us an opportunity to further enhance our product offering for our customers, modernize our fleet and operate the most efficient aircraft in its category," said Akbar Al Baker.

"The largest member of the 737 family, the 737-10 is an airplane that offers more capacity, greater fuel efficiency and the best per-seat economics of any single-aisle airplane," said Deal. "We are proud of our partnership with Qatar Airways and honored that this world-class airline continues to put its trust in our Boeing team."

An international carrier with a passenger fleet including Boeing 777 and 787 Dreamliner airplanes and an all-Boeing cargo fleet of 747 and 777 freighters, Qatar Airways serves more than 140 key business and leisure destinations worldwide.

Western Global Airlines Purchases Two Boeing 777 Freighters



- Global cargo carrier expands all-Boeing fleet with first order of new-production freighters
- Adding capacity to meet growing e-commerce and express cargo demand

Boeing and Western Global Airlines have announced a firm order for two 777 Freighters, the first new-production freighters for the all-Boeing cargo operator based in Estero, Fla. The order was finalized in January 2022 and is currently listed as unidentified in Boeing's order backlog. The agreement also includes an additional purchase option.

"Western Global is pleased to acquire

new-build 777 Freighter aircraft. As the world's fastest growing cargo airline, we have determined that augmenting our existing fleet with new 777 Freighters will enable us to best serve our customers while providing a clear path to our future fleet plans," said **Jim Neff, Western Global Airlines CEO & founder.**

Boeing's market-leading 777 Freighter is the world's largest, longest-

range and most capable twin-engine freighter currently flying, with the lowest trip cost and highest reliability of any large freighter. With a range of 4,970 nautical miles (9,200 kilometers), the 777 Freighter can carry a maximum structural payload of 107 metric tons (235,900 pounds), while reducing fuel use and CO2 emissions compared to prior airplanes. This capability and exceptional efficiency translate into significant savings for cargo operators, with fewer stops and associated landing fees.

Boeing has forecast that the global freighter fleet will grow by 70% in the next 20 years, with freight carriers such as Western Global supporting a rapidly expanding global e-commerce business and evolving supply chains.

"The addition of 777 Freighters will enable Western Global to continue its growth, providing increased capability and flexibility to its operations," said **Ihssane Mounir, Boeing senior vice president of Commercial Sales and Marketing.** *"These new freighters will complement its existing all-Boeing fleet and we are committed to deepening the partnership between our companies, which has existed since Western Global's inception."*

Having flown to over 400 airports in 135 countries on six continents, Western Global Airlines currently owns and operates a fleet of 21 747-400 and MD-11 Freighters, providing contracted turn-key transport services around the globe for a variety of blue-chip logistics companies, e-commerce platforms, and US Department of Defence.

As a leading global aerospace company, Boeing develops, manufactures and services commercial airplanes, defence products and space systems for customers in more than 150 countries. As a top U.S. exporter, the company leverages the talents of a global supplier base to advance economic opportunity, sustainability and community impact. Boeing's diverse team is committed to innovating for the future and living the company's core values of safety, quality and integrity.

Etihad Airways Adopts Boeing Digital Solution to Further Optimize 787 Fleet Efficiency



Jeppesen FliteDeck Advisor offers fuel and cost savings through real-time flight adjustments

minimize the carbon footprint of each flight.

“Etihad has been a tremendous partner in advancing sustainable aviation technologies, and we are excited to continue providing them with solutions that help them decarbonize their fleet while meeting their commercial goals,” said **Duane Wehking, vice president of Digital Aviation Solutions at Boeing Global Services.**

Boeing provides several other digital solutions and services to Etihad’s 787 fleet including Jeppesen FliteDeck Pro, Jeppesen Crew Rostering and Boeing Wind Updates, which provide crew scheduling, charting, navigation, and flight efficiency capabilities.

With 39 Boeing Dreamliner airplanes currently in operation, Etihad is the largest operator in the Middle East of the 787, a family of airplanes designed with superior efficiency which allows airlines to profitably open new routes to fly people directly where they’d like to go in exceptional comfort.

Boeing’s strategy to decarbonize aerospace is focused on four key areas, spanning fleet renewal, operational efficiency, renewable energy and advanced technology. Within the operational efficiency strategy, Boeing Global Services provides a portfolio of services including data analytics tools to help customers uncover cost or efficiency savings that reduce fuel consumption.

Boeing has been selected to provide Etihad Airways with the Jeppesen FliteDeck Advisor digital solution for the carrier’s 787 Dreamliner fleet to optimize operational efficiency and reduce fuel consumption.

Etihad has already found benefits from the use of FliteDeck Advisor. During a trial on several of its 787 Dreamliners, the airline found that the digital solution delivered cruise fuel savings of 1.4%, saving an average of 350 kilograms of fuel and 1,100 kilograms of CO2 per flight.

“We have been very pleased with the fuel and cost savings we have achieved with FliteDeck Advisor,” said **Sulaiman Yaqoobi, vice president of Flight Operations, Etihad Airways.** *“FliteDeck Advisor was tested as part of the Etihad Greenliner program, and it is great to now see it deployed across the 787 fleet, helping*

Etihad achieve efficiency gains and reduce CO2 emissions.”

Since 2019, Boeing and Etihad have collaborated on sustainability efforts centered on the airline’s 787 Dreamliner fleet, including on Etihad’s participation in Boeing’s Eco Demonstrator program, where the FliteDeck Advisor solution was initially trialed. In 2021, the two companies renewed and expanded their sustainability alliance to focus on enhancing the efficiency of navigation and flight operations, airframe technologies and sustainable practices to reduce emissions.

Jeppesen FliteDeck Advisor analyses airplane-specific performance metrics for all Boeing aircraft, including changes over time with aircraft age and maintenance action. The tool enables flight crews to make small, real-time adjustments to their course, altitude, and speed to optimize fuel use and

Etihad Cargo Launches Forever Home for Animal Rescues

New not-for-profit live animal at risk transportation initiative

Etihad Cargo, the cargo and logistics arm of the Etihad Aviation Group, has launched Forever Home, to support not-for-profit live animal at risk transportation. The new policy enables the UAE’s national carrier to consider requests from bona fide rescue and animal welfare organisations for not-for-profit transportation of animals at risk.

“Forever Home reflects Etihad Cargo’s desire to assist in the relocation of live animal rescue missions, which may involve animals which have been abandoned, seized by authorities, or neglected, and can range from domestic animals to endangered species under CITES and the IUCN Red List– the multilateral treaty to protect endangered plants and animals,” said **Martin Drew, Senior Vice President Sales and Cargo, Etihad Aviation Group.** “This

policy will ensure any rescue mission is conducted by an approved and reputable organisation in line with Etihad Aviation Group’s own ethics and compliance.”

Forever Home significantly expands Etihad Cargo’s existing animal welfare and conservation policy, which commits to identifying and implementing actions to help prevent the illegal wildlife trade and encourage responsible sustainable tourism.

“As one of the first airlines to sign the United for Wildlife Transport Taskforce Declaration, Etihad Cargo has a strong track record in animal welfare,” said Drew. “Forever Home expands that commitment to cover all animals – whether they are pets, racehorses, or exotic species. All rescue requests will be subject to due diligence and, if approved, the rescue organisations or individuals can be assured of specialised animal transportation at the best possible rate.”

Etihad Cargo’s dedicated LiveAnimals and SkyStables products provide customised solutions for

transporting animals and horses, from family pets to global conservation projects. Adhering to all regulatory requirements, Etihad Cargo ensures the safest treatment of all species entrusted in its care with dedicated handling, pallet build-up, and ramp transport by specially trained staff.

The UAE’s national carrier recently earned IATA Center of Excellence for Independent Validators (CEIV) Live certification for its LiveAnimals product, which provides additional accreditation and reassurance to customers for Etihad Cargo’s expert handling of live animals.

The launch of the policy further strengthens the nation’s commitment to the protection of animals, after highly respected Emirati conservationist and managing director of the Mohamed bin Zayed Species Conservation Fund, and managing director of Environment Agency Abu Dhabi, H.E Razan Al Mubarak, was elected President of the Union for Conservation of Nature (IUCN) in September 2021.

الإتihad
ETIHAD
CARGO

“Mission Forever Home”

1. Enquiry submitted to sustainability@etihad.ae

2. Etihad Airways sustainability department verifies the enquiry & request the necessary documentation

3. Etihad Airways sustainability department conducts internal check:
 • Step 1: Operations & Delivery
 • Step 2: Area Manager at origin
 • Step 3: Marketing & Communications

4. Booking details are confirmed with requester

5. Safe journey for the rescue animal

6. Relocation confirmed

Etihad Cargo Posts 49% Revenue Growth For 2021

UAE carrier's tonnage increases 27% to reach highest level since 2017



Etihad Cargo, the cargo and logistics arm of the Etihad Aviation Group, has achieved record revenue growth of 49 per cent in 2021 as it continued to outperform expectations with a 27 per cent year-on-year increase in freight carried, contributing towards 55 per cent of the group's revenue.

"2021 was a milestone year for Etihad Cargo," said **Martin Drew, Senior Vice President Sales & Cargo, Etihad Aviation Group.** "The Etihad Cargo team has worked closer than ever with partners and customers to address their demands and allocate necessary capacity, resulting in a record tonnage of 729,200 tonnes – the highest since 2017."

In Q1, Etihad Cargo temporarily modified five Boeing 777 aircraft to support cabin-loaded cargo, operating more than 800 charter and scheduled cargo flights in the new configuration in 2021, adding capacity along key strategic routes. By mid-2021, Etihad

Cargo had announced the recovery of more than 90 per cent of its network compared to pre-COVID. In total, the carrier operated more than 6,000 passenger freighters throughout the year, with freighter utilisation averaging 16.5 hours.

Premium products have also seen remarkable growth: PharmaLife, the carrier's award-winning pharmaceutical shipment solution, achieved a 85 per cent increase in revenue on 2020, while Fresh Forward, for transporting perishables, increased by 26 per cent. With the relaxation of travel restrictions, SkyStable, the carrier's dedicated equine transportation solution, grew by 28 per cent, and SafeGuard, for transporting valuables, increased by 103 percent compared to 2020.

Despite the ongoing operational challenges imposed by new variants of the COVID-19 virus, the UAE national carrier also maintained a Delivered As Promise (DAP) rate of 84 per cent

through the past 12 months and an on-time performance (OTP) of 84 per cent.

"It is testament to the hard work and commitment of the team that, despite the challenges of the pandemic, Etihad Cargo has achieved its operational targets while meeting and exceeding customer expectations," said Drew.

Over the past year, Etihad Cargo continued to facilitate critical COVID-19 vaccine distribution which contributes to 30 per cent of its pharmaceutical shipments. Jointly with its partners at the HOPE Consortium, over 250 million COVID-19 vaccine doses have been handled to over 40 countries. In addition, several initiatives have been launched to facilitate the distribution and to position Abu Dhabi as a pharmaceutical and life science hub including establishing the first pharmaceutical distribution corridor between Abu Dhabi and Belgium. The corridor will facilitate the quick delivery of vaccines and meet future

life science needs. The carrier is also working in tandem with UNICEF to transport aid globally following the signing of a five-year Memorandum of Understanding (MoU) to support the UN agency's Humanitarian Airfreight Initiative.

Investing in digitalisation has continued to be a key enabler to success. Augmenting customer service was a key focus of 2021 and Etihad Cargo's new online booking portal was developed following extensive customer workshops to address their requirements, reducing the booking time to just 45 seconds. Since its launch in October, the company has recorded 36% increase in online bookings within three months of launching the new portal. In addition, the carrier has announced exploring a proof of concept with SPEEDCARGO for using Artificial Intelligence to measure cargo dimensions and optimise space planning, which will in turn allow Etihad Cargo to improve capacity planning.

MIA cargo flying high into 2022 after a record-breaking year



Miami International Airport handled 2.7 million tons of freight in 2021, shattering its previous record of 2.3 million tons in 2020 by 17 percent, for its second consecutive year of growth. International freight grew by 17 percent to 2.2 million tons, while domestic freight rose 15 percent to 500,000 tons. MIA continues to rank as the busiest airport in the U.S. and ninth busiest in the world for international freight.

“I am thrilled to see MIA have another record-breaking year in freight shipments and expand on its role as the cargo gateway of the Americas, further increasing the transportation of essential goods and life-saving supplies across the world. This is yet another example of how Miami-Dade County is ready to increase its capacity exponentially and help alleviate the supply chain crisis nationwide.”

Miami-Dade County Mayor Daniella Levine Cava

MIA’s sustained and robust upward trend in cargo volume spurred two major facility expansions that were completed in 2021. In November, *DHL Express* completed a \$78-million renovation and expansion of its MIA hub. The investment, which includes a state-of-the-art, fully automated package sorting system, nearly doubled the facility’s sorting capacity and warehouse space to 206,000 square feet. To accommodate its growth, *DHL Express* also expanded its

workforce by 70 percent in 2021 to 731 employees at the new facility.

In December, *FedEx Express* completed a \$72.2-million, 138,000 square-foot expansion of its hub at MIA, doubling its total facility size to more than 282,000 square feet. The enhancements include a new customs clearance area and a new 70,000 square-foot cold chain facility, the largest in the *FedEx* global network. The expansion created hundreds of new jobs at the hub for the busy winter holiday shipping season.

“Thanks to the growth and success of our diverse and extensive cargo community in 2021, MIA continued to strengthen its position among the world’s leading cargo airports. Congratulations to all our cargo partners for helping MIA soar to another record year and for supporting our ongoing recovery from the pandemic.”

Ralph Cutié, MIA Director and CEO

MIA plays Cupid as America’s busiest flower gateway

91 percent of all flower imports for Valentine’s Day arriving at MIA

Love is definitely in the air at Miami International Airport this week, when the busiest U.S. airport for flower imports expects an average of 300,000 flower stems to arrive daily before Valentine’s Day. From January 1 to February 15, MIA projects that a total of 1.4 billion flower stems will have landed for sweethearts across the country – a 17-percent increase over the same period in 2021. The surge in flower power follows a six-percent increase in imports at MIA during last year’s peak season compared to 2020.

MIA receives 91 percent of all flowers imported to the U.S., primarily from South America, for a total of more than 236,000 tons valued at nearly \$1.2 billion annually.

MIA’s blooming flower trade is a big reason why the airport set a new record of 2.7 million tons of total freight in 2021, for its second consecutive year of growth.





American offers a dedicated suite of Life Sciences and Healthcare cargo products, expands CEIV certification

American Airlines Cargo has announced a dedicated suite of products and priorities to make it easier for customers to book a variety of Life Sciences and Healthcare shipments – a segment that has seen a 17% volume increase over the last years across regions the airline serves. With advancements in individualized healthcare and medical innovations that lead to longer, healthier lives, fast and reliable transportation of these shipments has never been more crucial. This new offering leverages the network of the world's largest airline and award-winning expertise to serve customers now and into the future.

The Life Sciences suite offers cargo products designed for time-sensitive shipments. Whether under 100lbs, bulk or containerized, American's Priority

Parcel Service (PPS) or ExpediteFS services provide benefits including next-flight booking options, priority boarding, and the shortest tender times. These two products are also customizable, as the airline offers an array of handling and monitoring capabilities based on the level of handling a shipment may need – from prioritized take-off and landing for life-saving medical shipments with MEDEVAC service, to enhanced monitoring and proactive updates with Critical PPS service.

Also included in the Life Sciences suite is American's cold-chain solution, ExpediteTC. This product offers both active and passive temperature capabilities for shipments and has earned the airline Center of Excellence for Independent Validators

in Pharmaceutical Logistics (CEIV Pharma) certification.

Awarded by the International Air Transport Association (IATA), CEIV Pharma certification recognizes air carriers and entire air cargo supply chains that have established the tools, procedures, and staffing to ensure pharmaceuticals are properly handled and maintain product integrity.

American is currently CEIV Pharma certified for its operations in and out of Dallas/Fort Worth International Airport (DFW), Philadelphia International Airport (PHL), and Miami International Airport (MIA) with several other key hubs expected within the year, making the carrier industry-leading in the breadth of this certification. These independently-certified stations position American to handle more critical pharmaceutical shipments across its network, supporting connections to Europe, South America, and Asia by way of these central and east-coast gateways.

"We are proud to support our customers and partners along the supply chain in transporting important medical and life-saving shipments around the globe. This dedicated product suite for Life Sciences, as well as our continued investment in our cold chain capabilities, is a testament to our commitment to this critical market and the people behind it," said Jessica Tyler, President Cargo, and Vice President Operations Innovation & Delivery for American Airlines.

American's ExpediteTC solution, founded in 2009, also operates with a global network of temperature-controlled facilities, including its dedicated 25,000-square-foot temperature-controlled center in PHL that specializes in pharmaceuticals.

The airline also recently added two new cooler spaces at John F. Kennedy International Airport (JFK), including a Controlled Room Temperature ranging 15°C to +25°C and a Refrigerated cooler ranging +2°C to +8°C, to further enhance handling capabilities for temperature-sensitive shipments traveling across the Atlantic.

Another step towards sustainable air freight:

DHL purchases 33 million litres of sustainable aviation fuel from Air France KLM Martinair Cargo



- *This deal represents one of the most significant sustainable aviation fuel purchases in the Freight Forwarding industry*
- *Similar to DHL's other air and ocean freight cooperations, customers will benefit from CO2 reductions via a 'book & claim' system*
- *DHL Global Forwarding and Air France KLM Martinair Cargo leverage their long-lasting partnership to drive further decarbonization in aviation*

DHL Global Forwarding (DGF), the air and ocean freight specialist of Deutsche Post DHL Group, has signed an agreement with Air France KLM Martinair Cargo (AFKLMP) for the purchase of 33 million liters of sustainable aviation fuel (SAF). The three-year cooperation represents one of the most significant SAF purchases in the Freight Forwarding industry. DGF is excited about this new endeavor with AFKLMP, which has been a long-

term, reliable partner and one of the leaders in the Group's GoGreen carrier certification program for many years. The initiative is part of Deutsche Post DHL Group's Sustainability Roadmap, which aims to spend €7 billion on green technologies by 2030 and reduce all logistics-related emissions to zero by 2050.

"With our Sustainability Roadmap, we have set ourselves ambitious goals on our journey towards zero emissions. Sustainable fuels are a fundamental part of our efforts. That is why we have committed to covering at least 30 percent of air freight and ocean freight fuel requirements with sustainable fuels by 2030. Our partnership with AFKLMP will help us achieve that goal. At the same time, it serves as another example of the success of our 'book & claim' system, which ensures that reductions in Scope 3 emissions are attributed to our customers. We must all work together to accelerate the transition to a low-carbon – and ultimately zero-carbon – emissions transport sector. After all, we only have one planet," says **Tim Scharwath, CEO DHL Global Forwarding, Freight.**

The collaboration underpins DHL's efforts to support sustainability, recognizing the vital role of SAF in decarbonizing the air freight industry. The logistics expert expects the partnership to save 80,000+ tons of carbon dioxide emissions by blending SAF with regular aviation fuel on AFKLMP flights.

The higher the proportion of SAF, the lower the carbon emissions. This way, actual carbon reduction is achieved. DHL allocates the benefits to its customers, helping them reduce their carbon footprint.

"The Air France KLM Martinair Cargo teams are strongly committed and feel responsible for creating a sustainable future for our industry. This deal is a great opportunity to accelerate our joint sustainability efforts. Sustainable aviation fuel (SAF) has a lot of potential to reduce CO2 emissions and we are delighted to collaborate with our strong, long-term partner DHL Global

Forwarding on this journey to greener logistics and transportation in the coming years," says **Adriaan den Heijer**, EVP Air France KLM Cargo and Managing Director Martinair.

DGF's partnership with AFKLMP will work similarly to earlier collaborations, with customers benefiting from the partnership through a 'book and claim' system. When purchasing a DGF service, they can select the sustainable option. The related Scope 3 emissions reduction will be credited to their account. Since it is nearly impossible both technically and logistically to physically track SAF from production to the airplane, 'book & claim' offers a digital accounting system to track and transfer emissions reductions from sustainable fuels across the value chains. Companies can own SAF by



With our Sustainability Roadmap, we have set ourselves ambitious goals on our journey towards zero emissions. Sustainable fuels are a fundamental part of our efforts.



buying and selling it without physically tracing the fuel through the supply chain. This makes SAF accessible for companies of all sizes and locations.

Deutsche Post DHL Group sustainability commitment

As part of its Sustainability Roadmap and Mission 2050, Deutsche Post DHL Group has made a commitment to set science-based targets (SBT) for reducing greenhouse gas emissions and will invest €7 billion through 2030 in clean operations to lower emissions to under 29 million tons. One key aspiration is to become a leader in sustainable aviation. To achieve this, Deutsche Post DHL Group will increase the blend of SAF in its operations to 30+ percent by 2030. The Group's GoGreen carrier evaluation program gives preference to carriers with strong environmental performance. Air France

KLM Martinair is one of DHL Global Forwarding's key carriers and has been one of the top three GoGreen carriers for many years.

Air France-KLM sustainability commitment

In October 2021, the Air France-KLM Group committed to having its CO2 emissions reduction targets validated by the Science Based Targets initiative (SBTi), ensuring that its targets are in line with the Paris Agreement. Air France-KLM is one of the first European airline groups to have its decarbonization trajectory validated by SBTi. This new important step in the Group's decarbonization strategy comes in addition to its objective of net zero emissions by 2050.

Air France-KLM's decarbonization

trajectory includes an ambitious plan to renew the Group's airline fleet with next-generation aircraft emitting 20-25 percent less CO2. Between 2019 and 2021, the Group invested 2.5 billion euros in fleet renewal.

The search for greater efficiency in its operations, by favouring more direct trajectories and applying procedures that limit fuel consumption (lighter aircraft, single-engine taxi, continuous descent) are part of AFKLMP sustainability efforts. Air France and KLM have set themselves the target of carbon neutrality for ground operations by 2030.

In addition, Air France-KLM is mobilizing the entire sector and is committed to developing innovative solutions for aircraft design and maintenance, engines, and synthetic fuels, which will gradually lead to carbon-free aviation.

SKY express Airline signs for CHAMP's Traxon Global Customs



SKY express Airline has chosen CHAMP's customs compliance solution, Traxon Global Customs (TGC). The growing airline will use the service between Greece and Great Britain.

SKY express required a solution to automate and efficiently handle any customs requirements it faces now, or in the future. TGC assists in this as it automates the filing of Advance Customs Information to 62

customs authorities through a single gateway. The solution enables efficient, secure, and accurate information exchange in line with the customs authorities' requirements - regardless of format, communications protocol, or processing rules.

"As customs rules change, we must have flexible solutions to keep us moving," says George Lioumpis, General Manager at SKY express Airline, "Traxon Global Customs is a tried and tested solution that will expand as we do."

"We are delighted to serve SKY express Airline," says David Linford, Director Global Sales & Account Management at CHAMP Cargosystems. "CHAMP hopes to be a partner for the airline for many years to come."

TECHNOLOGY

TAROM signs for Traxon cargoHUB and renews to for Cargospot suite

TAROM has signed to join CHAMP's Traxon cargoHUB community. The long-time CHAMP customer joined the largest air cargo community service, in addition to renewing for CHAMP's Cargospot suite – including renewing for Cargospot Airlines and Revenue. These solutions are serviced through CHAMP's state-of-the-art data center using industry-leading technologies, which offer enhanced security and optimum connection speeds.

Building on its relationship with CHAMP – TAROM will now benefit from Traxon cargoHUB which is a platform featuring one of the largest air cargo

communities. It provides TAROM with digital access to thousands of stakeholders throughout the supply chain - enabling doing business efficiently with all community players via a single system regardless of format or protocol. Furthermore, TAROM has also renewed for Traxon Global Customs. With the solution, it has benefitted from regulatory compliance to over 60 regulatory authorities worldwide.

"TAROM has benefitted greatly by CHAMP's products," says **Mihaita Ursu, Chief Executive Officer at TAROM.** "We are eager to continue our relationship and take advantage of the

CHAMP ecosystem and further evolve our digital business strategy together with CHAMP in the years to come."

*"We are pleased to expand our relationship with TAROM," says **Nicholas Xenocostas, Vice President Commercial & Customer Engagement at CHAMP Cargosystems.** "Traxon cargoHUB connects the supply chain and is a trusted partner to guide TAROM through its next steps of digitalization and automation. TAROM will continue to have access to the most up-to-date technologies. We are pleased to have the opportunity to further serve a long-time partner and expand our services."*





WFS gains Turkish Airlines' Cargo Contracts in Dallas/Forth Worth and Houston

Worldwide Flight Services (WFS) has extended its cargo handling partnerships with Turkish Airlines in North America Dallas/Fort Worth and Houston.

In Dallas, WFS has commenced handling services for the airline's four Boeing 777 passenger flights to Istanbul. The new contract at Houston's George Bush Intercontinental Airport will begin in March and will see the local WFS team handle 3-4 freighter flights per week plus daily B777 passenger services to the Turkish city. WFS already holds a freighter ramp handling contract with the airline in

Houston.

Overall, WFS expects to handle some 31,000 tonnes of cargo per annum for Turkish Airlines at the two airports.

"We are pleased to expand our relationship with Turkish Airlines in North America, where we also provide passenger handling services in Chicago. These contracts extend our existing cooperation in Houston, while Dallas/Fort Worth is a new station for WFS to provide service to Turkish Airlines. Our local teams are proud to have earned the trust of one of the world's leading cargo carrying airlines, and we look

forward to growing our partnership to other locations in the near future," said Mike Simpson, Executive Vice President Americas at WFS.

WFS handles over 245,000 tonnes of cargo annually for airline clients in Dallas/Fort Worth and Houston and provides warehouse and freighter ramp handling at both airports. WFS' acquisition of US handler, Pinnacle Logistics, in September 2021 has also added road feeder services to its portfolio, connecting Dallas and Houston and other major cargo gateways in North America.

BERT SELIS joins WFS to lead Growth With E-commerce, Express, and Freight Forwarding Clients in EMEAA

Bert Selis has joined Worldwide Flight Services (WFS) in the new role of VP Business Development, E-commerce, Express & Freight Forwarders EMEAA, based in Liege, Belgium.

Bert has close to 20 years of experience in business development and sales in the air cargo and aviation industry. He has spent the last nine years working for Liège Airport, one of Europe's biggest air cargo hubs, most recently as Vice President Cargo & Logistics, where he was responsible for the growth of the airport and attracting key global cargo players to Liege.

He started his career in the cargo handling department of the former Belgian flag carrier Sabena and later



moved to Swissport. He also served as a Business Development Manager with the road transport and logistics company, H. Essers, and as Global Sales Leader with international flight academy, CAE.

In his new role, reporting to **Marc Claesen, WFS' Senior Vice President Commercial EMEAA**, Bert will support the company's EMEAA Commercial Team in expanding WFS' strategic focus on e-commerce, express, and freight forwarder activities in the region.

"Bert is a valuable addition to our EMEAA management team and brings considerable knowledge and expertise to our organization. Over the past two or more years, WFS, as the world's largest air cargo handler, has pivoted to meet the needs of the airline, freight forwarding, express, and e-commerce sectors and this has created some exciting opportunities to grow our relationships with existing customers and to engage in new ventures," Marc Claesen said.

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Cebu Pacific selects Swissport in Japan

With recent contract wins in Osaka (KIX) and Fukuoka (FUK), Swissport now supports Cebu Pacific, the Philippines' leading low-cost airline, in an exclusive partnership at all Japanese stations. Swissport has been providing airport ground services and air cargo handling for Cebu Pacific in Japan since 2014.

With the addition of Osaka (KIX) and Fukuoka (FUK), Swissport will be supporting Cebu Pacific at all Japanese stations. Swissport also operates at Nagoya (NGO) and Tokyo's Narita (NRT) and Haneda (HND) airports.

In Japan, Swissport's relationship with Cebu Pacific, the Philippines' leading low-cost airline, goes back to 30 March 2014, with services at Narita and Nagoya launching on the same day. Swissport recently renewed all existing agreements and, following a successful competitive tender, was awarded Osaka and Fukuoka for both ground handling and cargo. Excluding Nagoya, where Swissport does not have a cargo operation, Swissport is Cebu Pacific's sole provider in Japan, handling 35 flights per week across four airports.

"We are extremely proud and delighted that Swissport's superior performance has led to an expansion of our partnership throughout Cebu's entire Japanese network," said Brad Moore, Swissport's Managing Director for APAC. "We look forward to bringing our unrivalled levels of safety and service to all airports served by Cebu Pacific as they scale back up in 2022."

"To receive the trust from Cebu Pacific to expand on our collaboration is a great acknowledgment of our teams' consistent and dedicated service delivery," said **Stephan Kaeser, Director & COO for Swissport Japan.**

Outside Japan, Swissport supports Cebu Pacific in Jeddah, Saudi Arabia, and Sydney, Australia. In 2018, Swissport supported Cebu Pacific with a transition to Terminal 2 at Nagoya Airport, a brand-new terminal designed for low-cost carriers featuring the latest in self-service kiosks and bag drops. In addition, Swissport has won awards for process efficiency in its Cebu Pacific ground handling operation at Tokyo's Narita Airport.

Cebu Pacific is the leading low-cost airline in the Philippines, operating flights to over 60 domestic and international destinations across 14 countries, including Australia, China, Japan, Singapore, and the United Arab Emirates.

Swissport increases cargo handling capacity on Schiphol Airport to 35,000 sqm

Swissport has realized a major increase in its cargo warehousing capacity by adding a new, second line (landside) terminal at Amsterdam Schiphol Airport. The new facility, located only a 10-minute drive from two existing terminals, expands Swissport's cargo handling capacity to 35,000 sqm.



Swissport is investing and growing its cargo business in the Netherlands. With cargo volumes on the rise globally and at Schiphol Airport, introducing more warehousing space is key. The new second line terminal expands Swissport's cargo handling capacity to 35,000 sqm and prepares its operations at Schiphol Airport for the future.

Jeroen Giling, director of Swissport's cargo division at Schiphol Airport, is delighted with the increase: "The new terminal 7 will relieve our first line on-airport warehouses, allowing us to use our total available space even more efficiently. It enables us to move not only more cargo but also faster, reducing the waiting time for trucks considerably. With the opening of our third cargo terminal at Schiphol Airport, we are all set for the future growth of our existing client portfolio and ready to welcome new customers."

Daniel Tarrega, CEO of Swissport the Netherlands and Denmark: "At Amsterdam Schiphol Airport, air cargo volumes are rising stronger than terminal capacity. Warehousing space has become 'the new gold. As we are very confident about the future of our business and our company, we are investing in our facilities and our people."

Air cargo is of fundamental importance to Swissport's airline customers and to the global supply chain. As a world-leading air cargo handler, Swissport plays a vital role in making sure that all types of air freight, from perishable food to key technological components and

pharmaceuticals, reach their destination safely and on time. Beyond increasing warehousing space, Swissport has recently announced it will create some 17,000 new jobs worldwide. These are primarily frontline roles in passenger services (check-in, gate), ramp handling (movement of aircraft/towing, baggage handling), and air cargo services. At Schiphol Airport, Swissport has recently offered its more than 100 temporary employees a permanent employment contract. New joiners are now also immediately offered a permanent contract after their two-month probationary period, in order to support the recruitment drive as global aviation recovers and airlines ramp up flights.



Freight volumes increased by 13% compared with 2019 at Brussels Airport

This last February, Brussels Airport welcomed around 825,000 passengers, up by 400% compared to February 2021, but still down by 50% compared to the same period before the crisis (February 2019). A better month than January (-52%), despite being shorter by 3 days. In terms of freight, the volumes transported increased by 13% compared with February 2019, thanks to the significant growth in air cargo (+26%).

In February, the freight volume at Brussels Airport grew by 13% compared with February 2019, before the crisis. This result can be explained by the strong increase in air cargo volumes (+26%). Thus, the full cargo (+67%) and express services (+39%) segments remain the growth drivers, while passenger volumes remain understandably below 2019 volumes (-24%).

Compared with 2021, the full cargo segment recorded a slight decrease in volumes (-5%) due to temporary capacity constraints faced by some carriers. The downturn in freight caused by the Chinese New Year influenced freight volumes

at the beginning of the month, in line with historical trends. Last year was an exception, however, as production was exceptionally strong in Asia due to the significant delay caused by transport restrictions. Express service volumes finished the month down (-15%) due to a reduction in DHL Express flights at Brussels Airport since the beginning of the year.

Asia remains the largest export region, but is only the third largest in terms of imports due to the effect of the Chinese New Year. As a result, Africa has become the largest import region in February, followed by North America.

Amerijet International Airlines B757 Fleet Expansion



Amerijet International Airlines announced that it has introduced six B757 freighters to its fleet. The addition comes as part of a comprehensive expansion and modernization strategy launched by the company in 2020. The B757-200(PCF) freighters will offer Amerijet customers versatility, range, and payload capability ideally suited for destinations throughout its Caribbean, Mexico, Central American, and European network. These additional aircraft will bring the fleet operated by Amerijet to 20 freighters, including six B767-200F and eight B767-300F models.

"I'm incredibly proud of our employees who worked tirelessly to bring the B757 project to fruition. These aircraft will be a wonderful addition to our fleet, giving us a platform for continued growth as we approach 50 years of continuous service from our home base in Miami, Florida," said **Tim Strauss, Amerijet's Chief Executive Officer.**

Amerijet's B757-200PCF's are powered by Rolls-Royce RB211 engines capable of fuel-efficient operation

with maximum payloads in the hot and humid climates and shorter runways that are common throughout Amerijet's service region. As part of that expansion, the company also announced its plans to continue adding flight crews, maintenance, and technical personnel.

The introduction of the B757 freighters is another example of the ongoing investments Amerijet is making to be the carrier of choice throughout the Caribbean, Mexico, and Central America," added Eric Wilson, Chief Commercial Officer.

During this first month of 2022, the cargo volumes at Brussels Airport grew by 4% compared to January 2021 and even by 10% compared to January 2019. The airport also welcomed more than 800,000 passengers, an increase of 183% compared to January 2021 but still down by 52% compared to the same period before the crisis (January 2019).

The month was particularly busy due to the high demand for air freight. This phenomenon was partly due to the disruption of global cargo supply

chains. A month that was positively impacted by the Christmas holidays but was also marked by the more stringent sanitary measures in Europe. Cargo continued its growth with a 4% increase in total volumes transported compared to January 2021.

Compared to January 2021, growth in freight transport continued mainly in the full cargo segment (+24%), but also in belly cargo (+51%), due to the severe travel restrictions and the resulting decline in passenger flights a year ago. Integrator services, on the other hand, experienced a 25% decline, after the continued strong growth of recent months. The same goes for trucked air freight, which saw volumes drop by 8% compared to January 2021. In terms of volumes, Asia remains the most important region, followed by America.

The transport of vaccines to and from Brussels Airport continued. In total, since the start of vaccine shipments in November 2020, 900 million vaccines have been transported, confirming more than ever the role of Brussels Airport as the main European

pharmaceutical hub.

Passenger numbers were again put under pressure by the worsening epidemiological situation in Europe, the travel restrictions, and the testing requirements. The ban on flights to Morocco also had a negative impact on the whole month. Fortunately, this ban was lifted from the 7th of February.

In the coming months, Brussels Airport is preparing to welcome back

four airlines that suspended their flights at the start of the Covid-19 pandemic: Delta Air Lines, Air Transat, CSA Czech Airlines, and Ukraine International Airlines.

Interestingly, the total number of flight movements in January 2022 increased by 86% compared to 2021 and amounted to 10,585 (compared to 17,232 in 2019). The number of passenger flights increased by 149%

compared to 2021 but remains at 52% of the number of passenger flights in January 2019, before the crisis. This January, full cargo flights increased very slightly by 0.9% compared to 2021. The share of cargo flights carried out by passenger aircraft is declining but remains an important additional connectivity option for destinations such as Brazil, China, and Japan.

Amerijet International Airlines Launch of New Cargo Platform

Amerijet International Airlines has announced the launch of its new cargo management system, SmartKargo.

The new online system enables the airline's customers greater flexibility to view prices, capacity and make real-time bookings. Digital transformation and automation have been in the forefront of Amerijet's vision to provide its customers with digital innovation every step of the way.

"The new cargo system will bring efficiencies to Amerijet and its

customers, and with SmartKargo we will provide not only a streamlined user experience for our forwarders and direct cargo customers but also reliable access to our capacity, and real-time data at every step of the distribution journey," said Tim Strauss, Amerijet's Chief Executive Officer.

Using the new online system, Amerijet's customers can access capacity throughout Amerijet's global freight network anytime, anywhere. Customers will use the new platform by accessing their existing Amerijet

MyCargo suite at www.amerijet.com. "SmartKargo is a part of a comprehensive investment strategy in new technology and processes that will benefit both our employees and customers every day. We are very pleased with our SmartKargo experience, and we hope our customers will be too," added Eric Wilson, Chief Commercial Officer. "We will be investing in our customer experience moving forward as we continue to grow," Wilson said.



SmartLynx Airlines flying further by adding Boeing 737 MAX 8 to the fleet



with our new customer SmartLynx which will support the expansion of their fleet into the Boeing 737-Max aircraft family. This deal shows that there is continued growing demand from customers for SMBC Aviation Capital's young, fuel-efficient narrow-body aircraft and highlights our continued commitment to supporting our customers' adoption of the latest generation, most environmentally friendly aircraft types."

The first two 737 MAX 8 units will be introduced to the SmartLynx fleet in April, with further

In a historical milestone move, SmartLynx Airlines has just signed an agreement with SMBC Aviation Capital to lease the first two Boeing 737 MAX 8 aircraft, to meet growing demand from European and overseas markets.

The beginning of 2022 marks a significant milestone in SmartLynx Airlines' expansion. The leading ACMI and charter operator has signed an agreement with SMBC Aviation Capital to lease two Boeing 737 MAX 8 aircraft to meet growing demand from European and overseas markets. This deal launches a successful partnership between the airline and one of the biggest global lessors, with deliveries of the aircraft to SmartLynx Airlines already being underway.

Such strategic expansion into the Boeing aircraft family will allow SmartLynx Airlines to build a reliable fleet that will ensure the provision of even greater and more versatile

products and services. Additionally, the longer range of the Boeing 737 MAX 8 opens new market opportunities for SmartLynx Airlines and its customers.

"As SmartLynx Airlines continues to modernize its fleet, there's no doubt that the Boeing 737 MAX 8 is the right aircraft for us, and we were pleased to work with SMBC to make it happen," said **Zygmantas Surintas, the CEO of SmartLynx Airlines.** *"Not only will these aircraft allow us to expand our services and the markets we can cover, it will also allow us to ensure even better-quality service and unmatched technical reliability."*

SMBC Aviation Capital is one of the world's leading aircraft operating lease companies and will be the first lessor to support SmartLynx with 737 MAX 8 type aircraft.

Barry Flannery, Chief Commercial Officer, SMBC Aviation Capital said: *"We are delighted to sign this deal*

type additions planned later in the Summer, of 2022. To ensure successful deliveries, SmartLynx has also entered into a partnership with Boeing, which will support the airline throughout the whole entry into the service process.

"We are delighted that SmartLynx Airlines has selected the 737 MAX to diversify and grow its charter fleet. The 737 MAX will help SmartLynx's customers reduce their operating costs by cutting fuel consumption and lowering noise and CO2 emissions," said **Ricardo Cavero, Vice President Commercial Sales & Marketing Europe, Israel & Turkey, The Boeing Company.**

The 737 MAX 8 will be the first returning Boeing aircraft to be operated by SmartLynx Airlines after a decade-long break.

A recruitment campaign has already been launched to source suitably qualified crews for the newly leased aircraft.

SmartLynx Airlines to introduce first Airbus A330-300 freighters to its fleet

In a move to bolster its position as a leading air cargo carrier, SmartLynx Airlines has signed an agreement with Air Transport Services Group (Nasdaq: ATSG) to be one of the first customers to take delivery of 6 Airbus A330-300 P2F converted cargo freighters under the terms of a six-year lease.

SmartLynx Airlines is an integral part of Avia Solutions Group, a leading global aerospace services group providing aviation services and solutions worldwide, for whom the introduction of the new A330-300 P2F will reflect the company's commitment to operating a modern, and environmentally-friendly fleet.

According to Zygmantas Surintas, CEO of SmartLynx Airlines, *"The introduction of the A330-300 is a logical step and one which creates relevant synergies with the rest of our fleet – A330 Pax and A321F units – and as an aircraft which will see increased popularity in a post-Covid environment. For us, the move comes as part of our fleet modernisation strategy providing greater capacity and efficiency and is another step towards SmartLynx Airlines becoming a leading global player in the air cargo marketplace."*

With the first of the aircraft due to join the SmartLynx fleet, in 2023, the A330 type offers the benefits of unmatched operational economics and versatility, with over 1,500 orders on Airbus' books and over 1,100 units operational for 110 operators worldwide, the aircraft is historically one of the most popular widebody aircraft ever to come into service.

With a maximum structural payload of up to 61 tons, and a range of up to 6,660 km (3,600 nm), the A330-300's combination of payload and range place the aircraft as a unique and perfect solution for cargo operators when the



availability of freighters is inadequate to cover the market requirements.

As part of the most modern and reliable family of aircraft in operation today, the A330 – equipped with state-of-the-art technology – provides a quality solution for every route and comes with an operational reliability of 99.4%.

The A330-300 conversions offer an impressive range of features:

- Main deck cargo door: 141" clear width & 101" clear height, hydraulically operated
- Reinforced floor grid & new freighter floor panels
- Cargo Loading System
- Additional revenues per flight – The 96" side-by-side AMV containers make full use of Airbus superior cross-section allowing up to 10% more volume compared to 88" × 125" ULD

In the words of the SmartLynx Airlines CEO, Zygmantas Surintas,

"We are more than happy to welcome the first Airbus A330-300s into the SmartLynx fleet. This latest introduction will offer our customers greater flexibility while also delivering on our commitment to offering the latest and most economical aircraft on the market. Our continuing goal is to present our customer base with exactly what they expect from us; safe, punctual, and reliable operations, while also addressing sustainability concerns for both us, and our clients."

"We welcome SmartLynx Airlines as the first customer for our A330 lease deployments," said Mike Berger, Chief Commercial Officer with ATSG. "We intend to continue expanding our lease options for e-commerce and express shipping customers around the world while providing a suite of complementary service options, including engine and airframe maintenance support, flight services, and logistics."



New generation A350F freighter to join Etihad Airways fleet

Etihad Airways' has signed a Letter of Intent (LoI) for seven A350F freighters to add to its existing fleet of five A350-1000 passenger versions. The announcement was made at the Singapore Airshow 2022. Etihad has also selected Airbus's Flight Hour Services (FHS) to support its entire A350 fleet.

"Etihad is delighted to extend our relationship with Airbus to include this remarkable aircraft as part of our freighter fleet for the future," said **Tony Douglas, Group Chief Executive Officer, Etihad Aviation Group**. "As our cargo operations continue to overperform and we work towards a more sustainable future built upon the world's youngest and most fuel-efficient fleet, the addition of the A350F will play a key role in driving our long-term cargo strategy and achieving our 2035 target

to reduce CO₂ emissions by 50%."

"We are pleased to sign this agreement with our long-standing partner Etihad, shortly before this most discerning airline also introduces A350 passenger service. Thank you Etihad for endorsing the game-changing nature of the new A350F" said **Christian Scherer, Chief Commercial Officer and Head of International**. "The world's only new generation large freighter will be unmatched in its market segment in terms of range, fuel consumption, and CO₂ savings."

As part of the world's most modern long-range family, the A350F provides a high level of commonality with the A350 passenger versions. With a 109-tonne payload capability, the A350F can serve all cargo markets. The aircraft features a large main deck cargo door, with its fuselage

length and capacity optimized around the industry's standard pallets and containers.

More than 70% of the airframe of the A350F is made of advanced materials, resulting in a 30 tonne lighter take-off weight and generating at least 20% lower fuel consumption and emissions over its current closest competitor. The A350F fully meets ICAO's enhanced CO₂ emissions standards coming into effect in 2027. To date, the A350F has won firm orders and commitments for 29 aircraft from 5 customers.

The A350F meets the imminent wave of large freighter replacements and the evolving environmental requirements, shaping the future of air freight. The A350F will be powered by the latest technology, fuel-efficient Rolls-Royce Trent XWB-97 engines.

Western Global Airlines Purchases Two Boeing 777 Freighters



- Global cargo carrier expands all-Boeing fleet with the first order of new-production freighters
- Adding capacity to meet growing e-commerce and express cargo demand

Boeing and Western Global Airlines have announced a firm order for two 777 Freighters, the first new-production freighters for the all-Boeing cargo operator based in Estero, Fla. The order was finalized in January 2022 and is currently listed as unidentified in Boeing's order backlog. The agreement also includes an additional purchase option.

"Western Global is pleased to acquire new-build 777 Freighter aircraft. As the world's fastest-growing cargo airline, we have determined that augmenting our existing fleet with new 777 Freighters will enable us to best serve our customers while providing a clear path to our future fleet plans," said Jim Neff, Western Global Airlines CEO & founder.

Boeing's market-leading 777 Freighter is the world's largest, longest-range, and most capable twin-engine freighter currently flying, with the

lowest trip cost and highest reliability of any large freighter. With a range of 4,970 nautical miles (9,200 kilometers), the 777 Freighter can carry a maximum structural payload of 107 metric tons (235,900 pounds), while reducing fuel use and CO2 emissions compared to prior airplanes. This capability and exceptional efficiency translate into significant savings for cargo operators, with fewer stops and associated landing fees.

Boeing has forecast that the global freighter fleet will grow by 70% in the next 20 years, with freight carriers such as Western Global supporting a rapidly expanding global e-commerce business and evolving supply chains.

"The addition of 777 Freighters will enable Western Global to continue its growth, providing increased capability and flexibility to its operations," said **Ihssane Mounir, Boeing senior vice president of Commercial Sales and**

Marketing. "These new freighters will complement its existing all-Boeing fleet and we are committed to deepening the partnership between our companies, which has existed since Western Global's inception."

Having flown to over 400 airports in 135 countries on six continents, Western Global Airlines currently owns and operates a fleet of 21 747-400 and MD-11 Freighters, providing contracted turn-key transport services around the globe for a variety of blue-chip logistics companies, e-commerce platforms, and US Department of Defence.

As a leading global aerospace company, Boeing develops, manufactures, and services commercial airplanes, defence products, and space systems for customers in more than 150 countries. As a top U.S. exporter, the company leverages the talents of a global supplier base to advance economic opportunity, sustainability, and community impact. Boeing's diverse team is committed to innovating for the future and living the company's core values of safety, quality, and integrity.

Atlas Air Worldwide Reports Record 2021 Results



Strong Outlook for 1Q22

All New 747-8F Deliveries Placed Under Long-Term Agreements

Announces \$200 Million Share Repurchase Program Including \$100 Million Accelerated Share Repurchase

Full-Year 2021 Results

- Reported Net Income of \$493.3 Million
- Adjusted Net Income of \$551.0 Million
- Adjusted EBITDA of \$1.1 Billion

Fourth-Quarter 2021 Results

- Reported Net Income of \$176.7 Million
- Adjusted Net Income of \$211.6 Million
- Adjusted EBITDA of \$361.8 Million

Atlas Air Worldwide Holdings, Inc. has announced record 2021 results, including revenue that rose to \$4.0

billion, and net income that increased to \$493.3 million, or \$16.16 per diluted share, compared with \$3.2 billion in revenue, and net income of \$360.3 million, or \$13.50 per diluted share, in 2020.

On an adjusted basis, EBITDA increased to a record \$1.1 billion in 2021 compared with \$844.2 million in 2020. For the twelve months ended December 31, 2021, adjusted net income rose to a record \$551.0 million, or \$18.51 per diluted share, compared with \$379.0 million, or \$13.67 per diluted share, in 2020.

“2021 was another outstanding year with excellent financial and operating performance. Our greatest strength is our people and I’d like to thank everyone at Atlas for working together to deliver these very strong results. We are also very pleased to have achieved a long-term labor agreement with our pilots that recognizes their significant contributions to Atlas. With the strength,

flexibility and resiliency of our global business model, our experienced and dedicated team delivered high-quality service to our customers in an operating environment with persistent pandemic-related obstacles,” said **Atlas Air Worldwide President and Chief Executive Officer John W. Dietrich.**

“We are leveraging our world-class fleet and global operating capabilities to increase aircraft utilization and capitalize on strong demand for our services and dedicated freighters, as well as on higher airfreight yields.”

He continued: “We have now placed our new 747-8Fs under long-term agreements, enhanced numerous long-term contracts with strategic customers and further diversified our customer base. In 2021, we deepened relationships with valued customers, including Cainiao, CEVA Logistics, DB Schenker, DHL, DSV, FedEx, Flexport, Geodis, HP Inc., Icelandair, JAS, Kuehne+Nagel, SF Group and UPS.

“We take a disciplined and balanced approach to capital allocation. We have strengthened our balance sheet, made significant investments in our fleet, including new 747-8 and 777 freighter aircraft, and are returning capital to our shareholders. Consistent with our balanced capital allocation approach, our Board has authorized a new \$200 million share repurchase program, and we are starting by implementing \$100 million in accelerated repurchases.

“Atlas is very well positioned for the future. We have a dedicated and talented team of employees, a strong balance sheet, a formidable fleet of aircraft, an unparalleled network of customers and unrivaled global operating capabilities. We also have a strong position and look forward to growing our Titan dry leasing business. And our strategic focus on express, e-commerce, and fast-growing markets will continue to drive our business forward.”

Mr. Dietrich added: “We expect strong performance in the first quarter of 2022, with adjusted EBITDA and adjusted net income similar to the first quarter of 2021. We also anticipate

revenue of about \$1.0 billion from flying approximately 85,000 block hours.

“This outlook reflects higher yields, including the contribution from numerous new or enhanced long-term customer contracts, as well as higher pilot costs from our new joint collective bargaining agreement that went into effect in September 2021.

“Due to the uncertainty related to the pandemic, ongoing supply chain disruptions, and other factors, we are not providing additional guidance at this time.”

Earlier Atlas Air announced it will **operate two new Boeing 747-8 freighters on a global basis for freight forwarder Kuehne+Nagel (K+N)** in a long-term, dedicated charter agreement.

Atlas Air recently **expanded its charter partnership with freight forwarder Flexport** to add a third Boeing 747-400 freighter from

2021 was another outstanding year with excellent financial and operating performance. Our greatest strength is our people and I'd like to thank everyone at Atlas for working together to deliver these very strong results.

September. It has also recently **extended a long-term aircraft transportation services agreement to operate a Boeing 747-400 freighter for SF Group** between China and the US.

Full-Year Results

Volumes in 2021 grew to 364,061 block hours compared with 344,821 in 2020, with revenue increasing to \$4.0 billion in 2021 from \$3.2 billion in 2020.

For the twelve months ended December 31, 2021, our reported net income rose to \$493.3 million, or

\$16.16 per diluted share, compared with \$360.3 million, or \$13.50 per diluted share, in 2020.

On an adjusted basis, EBITDA grew to \$1.1 billion in 2021 compared with \$844.2 million in 2020. For the twelve months ended December 31, 2021, adjusted net income increased to \$551.0 million, or \$18.51 per diluted share, compared with \$379.0 million, or \$13.67 per diluted share, in 2020.

Reported results in 2021 included an effective income tax rate of 23.8%. On an adjusted basis, our results reflected an effective income tax rate of 22.0%.

Air Senegal and SmartKargo partner to deliver cargo digital transformation

Air Senegal and SmartKargo have announced a partnership that will provide a digital transformation that will usher in a new era for the airline's cargo business.

The west African-based airline will deploy the SmartKargo solution across all functional areas of its cargo business serving 19 destinations, including New York, Washington, and Paris from its hub at Blaise Diagne International Airport in Dakar, Senegal.

Air Senegal is the flag carrier of the Republic of Senegal and the first African-based carrier to adopt the innovative SmartKargo technology.

The new platform will allow Air Senegal to digitally transform its Cargo business and successfully meet the future with robust Cargo management solution capabilities and advanced

technologies such as real-time information, business intelligence, and machine learning.

The solution will interface seamlessly with the airline's other systems and third-party providers via APIs — for fast integration and deployment.

Mr. Ibrahima Kane, CEO at Air Senegal said: “The advanced SmartKargo platform will enable us to build and develop a new, modern and robust air cargo business.”

“The fully digital solution is the best technology available and will propel Air Senegal forward by allowing us to grow our cargo business to its full potential.”

Mr. Sydney Silveira, Manager Cargo Development at Air Senegal said: “Our mission is to ensure that we build a successful Air Cargo Services

Airline that will operate in the whole of Africa and a company that will grow to be listed amongst the top Cargo Preferred Airlines from Senegal to connect to the world.

“SmartKargo technology and leading-edge processes are being adopted by airlines of all sizes throughout the world.”

“The platform provides a robust set of local and international features needed for the streamlined operation of a fully digital air cargo and logistics business”.

Olivier Hourri, CRO of QuantumID Technologies Inc. said: “Air Senegal's adoption of our advanced technology will provide a comprehensive solution to meet their objectives for the digital transformation of the commercial, operational and financial aspects of their air cargo business.”

Atlas Air Enters Into Long-Term Agreement with Kuehne+Nagel for Two Boeing 747-8 Freighters

Atlas Air, Inc., a subsidiary of Atlas Air Worldwide Holdings, Inc. has entered into a long-term, dedicated charter agreement to operate two of its new incoming Boeing 747-8 freighters on a global basis for Kuehne+Nagel, one of the world's largest freight forwarders.

Atlas Air will commence operation of these aircraft for Kuehne+Nagel following their delivery from Boeing, with one expected in the third quarter and the second in the fourth quarter of 2022. Atlas Air operates one of the world's largest fleets of 747-8Fs, the most capable freighter aircraft in the world. These two aircraft placed with Kuehne+Nagel are the last 747s Boeing will produce.

As previously announced, Atlas ordered the last four 747 production

aircraft to capitalize on strong demand and deliver value for its customers, while also bolstering its commitment to environmental stewardship through the reduction of aircraft emissions, resource consumption, and noise. This legendary aircraft has been in production for over 50 years and will continue to serve the needs of our global supply chains for decades into the future.

"We are delighted to expand our partnership with Kuehne+Nagel by providing dedicated capacity for their growing global airfreight network," said **Atlas Air Worldwide President and Chief Executive Officer John W. Dietrich.** *"The Boeing 747-8F serves an incredibly important role in global airfreight, with advanced technology that allows for lower fuel consumption,*

higher capacity and unique nose-loading capability. We look forward to taking delivery of these two 747s and operating them for Kuehne+Nagel to support their network for years to come."

Yngve Ruud, Member of the Management Board of Kuehne+Nagel, responsible for Air Logistics, commented: *"As a market leader in airfreight, Kuehne+Nagel further expands its dedicated charter network to support customers with solutions for long-term planning and high-quality service. We are proud to partner with Atlas Air and include these two new Boeing 747-8Fs in our already extensive global capacity offering."*

The 747-8F provides 20% higher payload capacity and 16% lower fuel consumption than the very capable 747-400F.



Atlas Air and Cainiao Expand Partnership with the Addition of a New Boeing 747-8 Freighter Linking China and The Americas



the commitment to environmental stewardship that Atlas and Cainiao share.”

“Through our successful partnership, Cainiao has been able to offer our customers across the Americas with faster and more eco-friendly deliveries provided by Atlas’ global operating capabilities. We are excited to add the new Boeing freighter to our expanding partnership in response to the growing demand for e-Commerce and greener logistics across the world,” said **William Xiong, Cainiao’s Chief Strategist and General Manager for Export Logistics.**

The Boeing 747-8 Freighter is the most capable, technologically advanced, and environmentally friendly widebody freighter. The 747-8F provides 20% higher payload capacity and 16% lower fuel consumption than the very capable 747-400F.

In November 2021, Cainiao expanded its partnership with Atlas Air to include daily charter flights operated between China and Latin America in response to the growth of cross-border trade between China and Latin America.

Atlas Air, Inc. and Cainiao Network, the logistics arm of Alibaba Group, have announced the expansion of their strategic partnership by adding a new Boeing 747-8 Freighter under a long-term agreement to increase capacity on routes between China and the Americas.

This expansion builds upon Atlas Air’s partnership with Cainiao, and the new aircraft will enter service for Cainiao in the second quarter of 2022, linking China with the United States, Brazil, and Chile.

This 747-8F aircraft is among the last 747s ever to be produced by Boeing. As previously announced, Atlas ordered the last four 747 production aircraft to capitalize on strong demand and deliver value for its customers, while also bolstering its commitment

to environmental stewardship through the reduction of aircraft emissions, resource consumption, and noise. The iconic Boeing 747 program has been in operation for over 50 years and will continue to play a critical role in keeping global supply chains moving for decades to come.

“We are very pleased to extend our strong partnership with Cainiao with the placement of one of our new 747-8Fs, the best performing widebody freighter in the industry with unique nose-loading capability,” said **Atlas Air Worldwide President and Chief Executive Officer John W. Dietrich.** *“Cainiao is a leader in the fast-growing e-Commerce logistics market, and we look forward to continuing to support its global network with the superior and reliable service Atlas Air provides. This fuel-efficient, high-capacity aircraft reinforces*

Airbus, Rolls-Royce, Safran, And Singapore Airlines Sign Global Sustainable Aviation Fuel Declaration At Singapore Airshow



Airbus, Rolls-Royce, Safran, and Singapore Airlines have signed the Global SAF Declaration at the Singapore Airshow, committing to promote the acceleration of the development, production, and consumption of Sustainable Aviation Fuel (SAF).

The aviation industry plays a part in achieving the Paris Agreement targets, with SAF being one of the key decarbonization levers in the aviation sector.

The Global SAF Declaration calls on industry partners from the aerospace, aviation, and fuel value chains to jointly work towards the uptake of SAF as an important part of decarbonization with the ambition to ensure a steady ramp up over the next ten years.

The Declaration is open to all

airlines, as well as aviation and aerospace organizations, as a complement to their sustainability commitments. Singapore Airlines is the first airline to sign the Declaration.

Grazia Vittadini, Chief Technology and Strategy Officer, Rolls-Royce plc, said: *“Signing the Declaration is an important milestone for the aerospace industry. We welcome the opportunity to push for more SAF use by coming together across the value chain. It is important that we combine our efforts and focus on building the momentum required to drive this forwards. We are all big advocates for the development of alternative propulsion solutions including hydrogen, hybrid-electric, and electric and we also recognize that SAFs are a key building block to set us on our path towards*

achieving our long-term decarbonization goals.”

Sabine Klauke, Chief Technical Officer, Airbus, said: *“Airbus is committed to reaching the industry’s joint goals of carbon-neutral aviation by 2050. Several levers are identified to achieve these objectives and the use of Sustainable Aviation Fuels is one of the major pillars on the path to decarbonisation, allowing for up to 80% gain in terms of CO2 reduction across the SAF lifecycle. All Airbus aircraft are currently certified to fly with 50 % SAF and this will be increased to 100% by 2030. The challenge is to further increase and encourage the uptake of SAF globally as well as incentives and long-term policies that encourage SAF use. The Declaration will support exactly that and Airbus is inviting further players in the industry to join the initiative.”*

Eric Dalbiès, Chief Technology Officer, Safran, said: *“Safran supports the Global SAF declaration which underlines the industrial engagement to reach net zero-emission in 2050. The Group is fully committed to delivering disruptive innovation for decarbonization, with ultra-efficient engines and 100 % sustainable aviation fuels capability, in order to enable the ambitious energy transition required in the aviation sector.”*

Lee Wen Fen, Senior Vice President Corporate Planning, Singapore Airlines, said: *“The Global SAF Declaration reaffirms SIA’s commitment to achieving net-zero carbon emissions by 2050. SIA remains firmly committed to our sustainability goals, and has been actively advancing the use of SAF in Singapore together with our partners. Beyond SAF, we also use multiple levers to achieve our goals, including achieving higher operational efficiency and investing in new-generation aircraft. We will continue to collaborate with like-minded partners globally to work towards decarbonization and environmental sustainability in our operations.”*

The creation of the Global SAF Declaration was supported by Roland Berger, a leading global consultancy in aerospace sustainability.

World's first Dash8-300 with oversized cargo door commissioned

Canadian airline Air Inuit has added the world's first De Havilland Dash8-300 with an oversized cargo door to its fleet.

After more than 36 months of planning, design, modernization, and safety testing, the specially modified aircraft received its Supplemental Type Certificate from Transport Canada on February 3, said the Quebec-based airline.

The installation of an oversized cargo door, measuring 274 cm x 173cm, has been made possible with the technical support of

Rockwell Collins (now part of Collins Aerospace).

This new door makes it easier to transport food and other goods on pallets, loading and unloading time can be reduced, while reducing the risk of damage to fragile goods, such as fresh fruits and vegetables.

The Dash8-300 has a maximum weight of 19,500 kg, cruise speed of 530 km/h, and range of 1,550 km.

Air Inuit provides air links between the 14 coastal villages of Nunavik, part of the Nord-du-Québec region. In the absence of road access, the

airline delivers essential products including food and oversized materials such as all-terrain vehicles and snowmobiles.

The Dash8-300 is well suited to locations served by a short gravel runway and has proven itself in the harsh weather conditions of Nunavik.

Air Inuit's now retired HS-748 aircraft consumed 30% more fuel than the Dash8-300. The development of the cargo door for the Dash8-300 was made possible in part thanks to a financial contribution from the Green Fund of the Government of Quebec.



DHL and Singapore Airlines Ink New Agreement To Expand Partnership

partnership between SIA and DHL. This new freighter operation will support the fast-growing e-commerce segment, in addition to other key business segments that rely on trusted express services that DHL excels in providing. It also provides a foundation on which the partnership between SIA and DHL can be further expanded in the future. Basing these freighters at Changi Airport will further reinforce Singapore's position as a key air cargo and e-commerce logistics hub, contributing to its growth and development."

Mr. Ken Lee, CEO DHL Express Asia Pacific, said: "This new agreement guarantees capacity on our critical routes out of Singapore as we gear up for ongoing growth in Asia Pacific trade. It gives us greater flexibility to add new routes and optimize our aircraft utilization in the face of unpredictable changes or sudden increases in demand."

DHL Express continuously invests to meet steady growth in cross-border

time-sensitive shipments. It operates over 320 dedicated aircraft across its global network of 220 countries and territories. The Boeing 777 freighters are the world's largest, longest range, and most capable twin-engine freighters that also contribute to DHL's sustainability goals, reducing CO2 emissions by 18% compared to the legacy Boeing 747-400s.

SIA's cargo division operates to more than 90 destinations as part of its current network, which includes a fleet of freighters as well as the belly-hold space of the SIA and Scoot passenger aircraft. The airline recently ordered Airbus A350F freighters as part of its fleet renewal programme. SIA continues to invest in its cargo capabilities, capitalizing on healthy demand fuelled by growth in e-commerce, fresh produce, and pharmaceuticals, among other segments.



DHL Express, the world's leading international express services provider, has entered into a Crew and Maintenance agreement (CM) with Singapore Airlines (SIA) to deploy five Boeing 777 freighters. This agreement marks a further step in DHL Express' expansion of its intercontinental air network to meet customer demand in fast-growing international express shipping markets.

Mr Travis Cobb, Executive Vice President Global Network Operations and Aviation, DHL Express, said: "With the deployment of five Boeing 777 freighters, we can expand our express service linking the Asia Pacific region with the Americas. Following the pandemic, we see good prospects for strong growth in trans-Pacific trade lanes. By collaborating with Singapore Airlines, we see a unique chance to establish a long-

lasting relationship with a long-time partner who shares common values and operates at the highest standard."

Based at Singapore's Changi Airport and serving DHL's South Asia Hub there, the freighters, which will sport a dual DHL-SIA livery, will be operated by SIA pilots on routes to the United States of America via points in North Asia. SIA will also oversee the maintenance of these aircraft.

The initial agreement is set for more than four years with the opportunity for an extension. As part of the agreement, the first aircraft delivery will be in July 2022, with the second in October 2022. The remaining three aircraft are planned for delivery throughout 2023.

Mr Lee Lik Hsin, Executive Vice President Commercial, SIA, said: "Today's agreement builds on and strengthens the long-standing

Singapore approves Korean Air's business combination with Asiana Airlines



Record Q4 cargo revenue pushes Korean Air to best-operating profit

Korean Air received unconditional approval from the Competition and Consumer Commission of Singapore (CCCS) for its business combination with Asiana Airlines on February 8.

Following its assessment, the CCCS has concluded that Korean Air's acquisition of Asiana Airlines will not infringe Singapore's Competition Act.

Singapore's competition authority conducted a public consultation in July last year to seek feedback from more than 150 stakeholders, including aviation regulatory bodies, competitors, and customers, on Korean Air's business combination report.

The CCCS found that the merged entity is unlikely to raise ticket prices due to the high degree of competition from competitor airlines such as

Singapore Airlines in the passenger business. In the cargo business, the authority also concluded that the merger would not reduce competition due to the significant pressure from existing and potential competitors such as Singapore Airlines and providers of indirect cargo flights, as well as excess capacity. Following the assessment, the CCCS approved the business combination of the two airlines.

Since the airline submitted business combination reports to nine countries that require reporting in January 2021, Korean Air has received approval from Turkey, Taiwan, and Vietnam. The Thailand Competition Commission announced that the submission of a business combination report was not necessary.

From countries where reporting is arbitrary, Korean Air has also received clearance from Malaysia in addition to Singapore. The Philippines has confirmed that the business

combination report was not necessary.

In order to finalize the acquisition process as early as possible, Korean Air will continue to proactively communicate and cooperate with the remaining regulatory bodies where the report is required, including the United States, the European Union, China, and Japan, as well as the United Kingdom and Australia, where reporting is arbitrary.

Seoul-headquartered Korean Air's network extends across 120 cities in 43 countries. The company's freighter fleet includes four Boeing 747-400s, seven Boeing 747-8Fs, and 12 Boeing 777Fs. In 2020, it handled 1,599,000 tons of cargo internationally and 36,000 tons domestically.

Asiana Airlines' international cargo business covers 12 countries, 27 cities, and 25 routes. Last year, the company modified two Airbus A350-900 passenger jets for freighter operations as part of plans to grow its cargo business.

Menzies Aviation welcomes robot recruit ahead of first air cargo technology showcase at Heathrow Airport



Menzies Aviation, the global aviation logistics specialist, is holding a technology showcase with tech powerhouses and next-generation logistic startups to find new solutions to enhance its cargo operations – from efficiency to sustainability.

Microsoft, Ricoh, and Vodafone are among 14 suppliers set to pitch and demonstrate their systems to Menzies executives including Mervyn Walker, Chief Operating Officer, and Mark Reid, Chief Information Officer. A full spectrum of solutions will be presented for different aspects of operations, from truck management and security scanning to employee wellbeing and training. Also presenting at the one-day event on the 1st of March are Speedcargo, Descartes Systems Group, Forward Momentum, i6 Group, KCL, Meraki, OnAssett Intelligence Inc, WePlan, HIK Vision and BotsAndUs.

The technology showcase, co-ordinated by Rory Fidler, Menzies' Vice President – Cargo Technology, is the first initiative of its kind for Menzies as it looks to invest in innovative solutions to improve operational efficiencies, enhance

workplaces for employees and support Menzies' goal of becoming carbon neutral by 2033, its 200th anniversary.

Menzies cargo facility at Heathrow Airport serves as an innovation space, which aims to foster a creative environment for the development of new technology to be rolled out across its global network. There are already a number of new solutions being put in place, such as Menzies' new robot Mimi. Developed by BotsAndUs, the autonomous robot tracks goods at every stage of the warehouse process, enhancing inventory management and slot utilization.

The showcase forms part of Menzies' overarching strategy for digitalizing its operations to improve efficiency, effectiveness, and sustainability. Demonstrating its commitment to developing its digital capabilities, Menzies has made

a number of strategic hires, most recently Filip Nekvinda, Senior Vice President – Digital & Innovation.

Robert Fordree, Executive Vice President – World Cargo Services, Menzies Aviation said: "We are very excited to be hosting this showcase at our innovation space at Heathrow Airport, which will shine a spotlight on the latest cargo technologies. This initiative is designed to ensure Menzies remains at the forefront of the cargo industry. Digital capabilities are becoming increasingly critical for an industry with a need for speed as cargo volumes continue to rise. The showcase is the perfect opportunity to identify solutions that have the potential to transform our global network of cargo handling operations. We're looking forward to the presentations and thank all of the participants for their involvement."

Menzies Aviation secures significant air cargo and ground services contracts across Australia and New Zealand

Menzies Aviation, the global aviation logistics specialist, has renewed and won several key contracts with airlines across Australia and New Zealand including China Airlines, Fiji Airways, Virgin Australia, Thai Airways, and Air Calin.

Menzies has renewed its ground services contract with China Airlines at Sydney, Melbourne, and Brisbane airports, marking 10 years since it started working with the airline in Sydney. Since then, the partnership has expanded with Menzies now providing above and below the wing services to China Airlines at Australia's three busiest airports.

At Sydney and Melbourne airports, Menzies has also renewed a contract with Thai Airways, which will see it continue to provide passenger and ramp services for the airline.

In New Zealand, Menzies has locked in

a further term with Fiji Airways to provide air cargo handling services at Auckland, Christchurch, and Wellington airports. This partnership began in 2011.

At these three airports, Menzies has established itself as a premium Cargo Terminal Operator (CTO), with its state-of-the-art warehouses in Auckland and Christchurch, and a brand-new facility at Wellington. Reflecting this, Virgin Australia has selected Menzies as its new CTO across all three stations.

Menzies will continue to be Air Calin's CTO at both Auckland and Sydney airports, building on a 15-year partnership with New Caledonia's

national carrier.

Alistair Reid, Executive Vice President – Oceania & South East Asia, Menzies Aviation, said: *"It is fantastic to see the momentum we have achieved across Australia and New Zealand with this series of key contract wins and renewals. These wins demonstrate Menzies' consistent standards of excellence across both ground services and cargo and the value of long-term cooperation with our airline customers. We're looking forward to further deepening these relationships and to continued growth in the Oceania region."*





Korean Air showcases UAVs at Drone Show Korea 2022

Drone Show Korea 2022 kicked off in Busan to showcase the latest innovations of major South Korean aviation and defense firms, offering a glimpse into future drones that will become available in daily lives in a few years ahead.

During the three-day event held at Bexco in Busan, LIG Nex1, a local defense firm that specializes in

missiles, unveiled KCD-200, a drone that can transport payloads heavier than 200 kilograms.

KCD-200, which looks like a small airplane, is supported by seven propellers and capable of vertical take-off. LIG Nex1 plans to complete the development of KCD-200 in 2025 and utilize it as a logistics drone in the military as well as urban air mobility to pick up and drop off passengers in the cities.

Korean Air also displayed a transportation drone that can fly at the speed of 150 kilometers per hour and carry payloads of 250 kilograms. The drone is set for completion in 2026. The drone will be a hybrid drone, meaning that it won't be powered 100 percent by eco-friendly power sources such as batteries or hydrogen.

At the event, SK E&S, the energy unit of South Korean conglomerate SK Group, displayed a drone powered by liquid hydrogen. The drone recently set a world record by flying for 13 hours and 24 minutes. SK E&S aims to register the record on Guinness World Records. The longest drone operation, so far, was 12 hours and 7 minutes.

"The drone is powered by liquid hydrogen, which is chilled at minus 253

degrees Celsius. Liquid hydrogen can store a great amount of energy, and this allows the drone to fly 26 times longer than those powered by lithium-ion batteries," a company official said.

SK E&S plans to deploy liquid hydrogen drones to conduct safety checks on facilities that are dangerous for human workers such as gas pipelines, solar panels, and wind farms.

Liquid hydrogen will be sourced from a liquid hydrogen production plant of SK E&S set for completion in Incheon in 2023.

SK Telecom, one of the three major telecommunication companies in Korea, showcased a telecommunication drone that can connect to five networks at the same time. With five simultaneous 5G connections, the telecommunication drone can offer a stable live video feed to users. SK Telecom plans to use the drone as an industrial drone that facilitates communications in remote areas such as mountains.

Korea Aerospace Industries, the nation's sole aircraft developer, grabbed the attention of visitors with a "metaverse" training program where pilots can engage in simulations with a drone squad.

Eastern Air Holdings and Flexport Announce Cargo Partnership Providing Net-New Capacity to Global Airfreight Market



Flexport, Launch Partner for Eastern's Express Freighter Service, to use Capacity to Expand Global Airfreight Network, Enhance Supply Chain Flexibility, and Resiliency for Clients

Eastern Air Holdings and Flexport, the platform for global logistics, today announced a multi-year contract for cargo services that will bring much-needed net-new capacity to the global air freight market. Eastern is expected to begin flying its B777 Express Freighters, once approved by the Federal Aviation Administration, twice-weekly between Chicago International Airport (ORD) and Hong International Airport (HKG) as well as Chicago International Airport (ORD) and Saigon's Ho Chi Minh City Airport (SGN) on behalf of Flexport.

The Eastern B777 Express Freighter is the first of its kind to market, designed specifically for

eCommerce goods, and provides much-needed cargo capacity to the global supply chain with its low-cost, reliable solution. The innovative design converts the main deck cabin of the widebody B777, traditionally a passenger aircraft, into a true cargo aircraft that will enable Flexport clients – some of today's most valuable global brands and fast-growing eCommerce companies – to fulfill consumer demand and keep goods moving

The soon-to-be-launched service will join Flexport's extensive tech-enabled global airfreight, container freight station (CFS), and trucking network. As all shipments are managed via the Flexport Platform, clients utilizing the Eastern B777 Express Freighter service will benefit from end-to-end control of their shipments and continuous milestone visibility. As part of a comprehensive supply chain strategy, Flexport

clients shipping from Asia hubs into the United States Midwest can use Flexport Platform data to determine high-value SKUs and prioritize shipments to control costs and maximize the value of Eastern's innovative solution.

"There is an urgent demand to develop new solutions that alleviate the constricted global cargo market," said **Steve Harfst, Eastern Air Holdings President & CEO.** *"Our partnership with Flexport, combining the large volume of our B777 Express Freighter with Flexport's leading-edge eCommerce technology and logistics platform, will fill that unmet need and add new capacity to the global cargo market."*

"Eastern has developed new, creative solutions to help solve the global airfreight capacity crisis, and we're honoured to partner with them," said **Neel Jones Shah, Executive Vice President and Global Head of Airfreight at Flexport.**

"Flexport client demand for airfreight has roughly doubled while global capacity has remained approximately 10% below pre-pandemic levels. Our strategic agreement with Eastern will provide critical net-new capacity to the market and bring our two innovative companies together to help meet demand and fuel growth."

As passenger travel remains depleted, the cargo constraints impacting the global supply chain continue to persist. Eastern has purchased five Boeing 777s for cargo conversion, with an option to acquire 30 additional Boeing 777s. As eCommerce-driven demand continues to grow, this new capacity provided by Eastern, and partners like Flexport, will deliver an innovative solution to ease the pain.

Eastern Air Cargo offers general cargo sales, cargo charters, ACMI/wet-leasing, and dry leasing in customizable routes.

Aviation Embarks on a Decade of Growth, But Emissions May Get in the Way, Oliver Wyman Reports



OliverWyman

The global fleet will expand at 4% a year as demand reaches pre-pandemic levels in 2023

After struggling with COVID for more than two years, the aviation industry is set to rebound — with the fleet growing 4% per annum over the next 10 years, according to Oliver Wyman's Global Fleet & MRO Forecast 2022-2032. But as pent-up global demand pushes air travel to pre-pandemic levels by 2023, the industry will once again have to confront rising carbon dioxide emissions and its lack of immediate solutions to reduce them.

The widely anticipated report, now in its third decade, digs deep into commercial aircraft deliveries and inventories — as well as aerospace production — to provide a comprehensive view of the size and composition of the commercial fleet over the next decade. The outlook delineates growth both globally and from a regional perspective. Additionally, it analyzes the maintenance, repair, and overhaul services (MRO) that the fleet will require.

Key findings for the 2022-2032 report include:

- The global fleet is set to grow to

38,100 aircraft by 2032 — a compound growth rate of 4.1% over the decade.

- Narrowbody aircraft will make up a larger share of the fleet — 64% in January 2032 versus 58% in January 2020 — as the slow recovery of international traffic after COVID-19 is depressing the number of widebodies in service.
- The fleet won't reach its pre-pandemic peak of almost 28,000 until the first half of 2023
- The dedicated global cargo fleet grew 3% and conversions of passenger aircraft to freight carriers broke records, thanks to a double-digit expansion in demand with the COVID-related explosion in online shopping and the loss of cargo belly capacity.
- The MRO sector is being redefined by a fleet in transition, as airlines begin to take delivery of new, highly fuel efficient narrowbodies and attempt to weed out older aircrafts that will need intensive maintenance sessions.
- By 2030, MRO demand is expected to reach \$118 billion, 13% below the pre-COVID forecast of \$135 billion, showing the lost growth from COVID.

"There is optimism that the industry has turned the corner and is now on an

upward trajectory -- but the next 10 years will be filled with a multitude of challenges that will test the industry's resilience unlike ever before," said Brian Prentice, a partner with Oliver Wyman.

No easy climate change solution

Aviation accounted for about 2.3% of total carbon dioxide emissions in 2021 — much less than road transport. But the ability to transition to electric vehicles over the next 10 years is likely to reduce road transport's share and push aviation's up — potentially increasing pressure on the industry.

Aviation has no easy fix despite decades of increasing the fuel efficiency of aircraft. While research and development are underway on the use of hydrogen and electric engines as substitutes for conventional fossil fuel-powered aircraft, those revolutionary propulsion systems are at least 15 to 20 years away from commercial production. And the one alternative — sustainable aviation fuel (SAF) — doesn't have enough production capacity or the right economics to work for either airlines or SAF producers.

"As unimaginably bad as COVID-19 has been for aviation, the challenge of the next decade may be almost as disruptive," concluded Prentice. "The industry needs smart strategies to get itself in a better position by the 2030s."



SIA finalizes order for A350F

Singapore Airlines (SIA) has finalized a purchase agreement with Airbus for seven A350F freighter aircraft. The order was signed at the Singapore Airshow by SIA CEO Goh Choong Phong, and Airbus Chief Commercial Officer and Head of International Christian Scherer.

The order firms up the carrier's commitment to the new generation freighter announced by the planemaker in December 2021. The newly ordered aircraft will replace the carrier's existing 747-400F fleet from the fourth quarter of 2025.

"This order underscores the importance of the cargo market to the SIA Group. The introduction of the A350F will enhance our capabilities in this key sector, ensuring that we are ready for the growth opportunities that will arise in the coming years. These new-generation aircraft will substantially increase our operating efficiencies and reduce our fuel burn, making an important contribution

towards the success of our long-term decarbonization goals," said **Goh Choong Phong, Chief Executive Officer, Singapore Airlines.**

"Singapore Airlines is the world's largest operator of the A350 and is now set to become the first to fly the all-new freighter variant," said **Christian Scherer.** *"The A350F will fit seamlessly into the carrier's existing fleet, while redefining the operational efficiency of its cargo operations, bringing a 40% reduction in fuel consumption and emissions compared with the aircraft it will replace at SIA while offering the same payload-carrying capacity and longer range. Consumer patterns have changed dramatically in recent times, generating increased demand for the swift transport of cargo by air. With the A350F, SIA will be well-positioned to respond to this enormous market potential in a profitable and sustainable way."*

The A350F meets the imminent wave of large freighter replacements

and the evolving environmental requirements, shaping the future of air freight. The A350F will be powered by the latest technology, fuel-efficient Rolls-Royce Trent XWB-97 engines.

The A350F is based on the world's most modern long-range passenger family. With a 109-tonne payload capability, the A350F will serve all cargo markets. The aircraft features a large main deck cargo door, with its fuselage length and capacity-optimized around the industry's standard pallets and containers.

More than 70% of the airframe will be made of advanced materials, resulting in a 30-tonne lighter take-off weight and generating at least 20% lower fuel consumption and emissions over its current closest competitor. The A350F will fully meet ICAO's enhanced CO₂ emissions standards coming into effect in 2027.

Singapore Airlines is the world's largest operator of the A350, with 58 currently in service.

SEKO's Gagne Provides Insights on 2022 supply chain and Logistics Landscape

Securing capacity for air freight, ocean, ground, and final mile parcel, as well as meeting labour needs, will be the keys to enabling growth and the consumer experience in 2022.

DESCARTES™

That was the word from James Gagne, president, and CEO of Chicago-based 3PL and global freight forwarder SEKO Logistics, at the company's Media Day Market Update.

These drivers noted Gagne, come amid inflation at a nearly 40-year high, with the Consumer Price Index up 7% annually in 2021, according to U.S. Department of Labour data.

"Raising interest rates is not going to unload 100 vessels off of the coast of California," he said. "And rate hikes are not going to address or solve the supply shocks side of the equation. Whether the Federal Reserve or the European Central Bank rate hikes result in a policy change in China toward the Chinese zero Covid policy is highly doubtful. We don't see that."

As for the labour-related challenges relative to securing capacity, in the U.S. and abroad, Gagne explained that is tied back to a few different factors.

One was the amount of labour for a structural impact across all modes, as well as what he called a churn across industries, in tandem with the concept of the Great Resignation and also Covid case numbers and resultant isolation periods that are uneven across the globe.

"All signs really point to 2022 being another year of volatility and uncertainty if you are a chief supply chain officer, a CEO, a board member, or head of logistics [and other titles]," he said. "You need to understand this

is a year of volatility and a year to be ramping up the consultative approach collaboratively with your partners that are helping and supporting your logistics and supply chain efforts. With global supply chain disruptions and shortages caused by the pandemic set to continue, that is what we mean by a year of volatility."

Regarding examples of volatility, Gagne cited how average transit time delays in shipping from China to Europe rose to six days in December after having fallen in the months leading up to it. That was also the case for China to the U.S., West Coast as well, which have been steadily increasing going back to October, he noted, with delays becoming "routine" and empty shipping containers across the world are not in the right places, coupled with blank sailings expected to continue well into 2022.

And while the Covid breakouts continue throughout the supply chain, Gagne said consumers continue to purchase at a healthy rate, with demand remaining strong. What's more, he observed ports will need to continue to focus on clearing backlogs against the backdrop of the aforementioned strong levels of consumer spending.

Gagne said that the port delays are not just a U.S. problem either, with the Chinese Port of Ningbo reportedly recently having 80 ships at anchor waiting to unload.

"Leveraging visibility to where your

product is [located] is more important than ever before," he said. "Most of the delays in queues in China are actually a result of land-based restrictions. This is what gets imposed by port authorities at the key ports. And the zero Covid policy has resulted in a roster-type system for port workers that is impacting efficiency and productivity, with maybe half of the port workers at ports compared to pre-pandemic levels. At the Port of Los Angeles and the Port of Long Beach, there are about 70 ships waiting to unload cargo, with about 20 ships waiting to unload in Europe at the Port of Rotterdam and Antwerp. This is not a pure U.S. or China phenomenon, it is global."

The most critical determinant of 2022 U.S. growth will be whether consumer demand tapers off, or lessens in the face of higher prices, in the form of supply-side inflation, and, or if, the supply-side recovers before that happens, according to Gagne.

"I think it is very unlikely the latter will happen, at least for the first six-to-nine months of the year," he said. "We are really talking about a question of whether household savings in terms of individual household balance sheets being higher than ever before, see demand taper off. We all know that the current combination of high demand, constrained supply, and accelerating prices is simply not a sustainable configuration. The only certainty remaining is volatility and uncertainty."

Addressing other industry topics, Gagne said he expects: elevated freight rates to persist, given the broader supply chain dynamics; ongoing port backups, both in China and the U.S., to continue, and will impact global supply chains throughout most of the year; the labour shortage across many sectors, not just transportation and logistics, is exacerbated by Covid and will remain a key factor impacting the broader

recovery, in terms of supply needed to keep up with the growth requirement; and the spike in e-commerce, with Covid leading to a significant pull-forward in e-commerce penetration.

On a longer-term basis, Gagne said there are a lot of questions regarding global trade flow and international relations, as seen in continued trade tensions between the U.S. and China, which he said will lead companies to reshape their supply chains.

“If you want to get into nearshoring and sourcing 3.0, where you are looking at manufacturing capacity, the reality is many companies will not be completely moving away from China in the short-term,” he said. “And even when we see Mexico ramping up, which I think is likely down the road, we are definitely going to see a need for components to support that nearshoring manufacturing. A lot of those components will still be coming out of China as we know.”

Chennault Airport invests \$4m in air cargo



Chennault International Airport in Louisiana, US is nearing completion of a \$4m facility to enter the air cargo sector.

Construction of the 10,000 sq ft air cargo pass-through facility began in June 2021. It is expected to be completed this summer, according to Chennault Airport executive director Kevin Melton.

“We believe there is value for companies to move goods through Chennault,” said Melton. “We provide a low-cost alternative to the larger markets where expense, ground delays, and airspace delays affect the efficient flow of goods.”

The facility is anticipated to be

certified for international cargo by the federal agency U.S. Customs and Border Protection.

As the facility is being built, ongoing discussions are planned with potential ground handling partners on such related issues as ramp handling, warehouse operations, and securing unique ground equipment to service large aircraft.

Construction is funded by a \$3m capital outlay from the state and \$1m from Chennault International Airport Authority funds.

Chennault, which is recognized as an emerging national aerospace hub, has retained air cargo consultant David Whitaker of DVW Aviation to help

identify potential industry partners.

“Chennault is a very robust airport with enormous potential and Southwest Louisiana is a cargo-rich region of the world,” said Whitaker.

“Much of the industry is already familiar with Chennault and the Lake Charles Region, given its first-class MRO tenants — including Northrop Grumman, Million Air, LandLocked Aviation Services, and Citadel Completions. Chennault offers relief to airlines and freight forwarders who need space and attention.”

Chennault International Airport’s runway is 10,700 ft long and 200 ft wide, with a newly refurbished parallel taxiway that has runway capabilities as well.



Natilus secures \$6bn in purchases

Autonomous cargo drone developer Natilus has announced advanced purchase commitments of more than \$6bn for the delivery of 440+ aircraft in pre-orders.

Orders are from companies including **Volatus Aerospace**, Astral Aviation, Aurora, Dymond, and Flexport.

Earlier this month, Flexport completed a \$900m investment round and has signed a Letter of Intent (LOI) for two 100T Natilus aircraft, with an option for a third.

California-based Natilus, which said it is producing the world's first purposefully designed and manufactured autonomous aircraft for airfreight transport, aims for its aircraft range to increase cargo volume by 60% while cutting costs by 60% and lowering carbon emissions by half.

The family of cargo aircraft includes a 3.8-ton payload short-haul feeder UAV; 60-ton payload medium/long range UAV; 100-ton payload long-range UAV; and a 130-ton payload long-range UAV.

Natilus chief executive Aleksey Matyushev said: "Today, there are only two ways to move cargo internationally: by air and by sea. The difference between the cost and time of these two modes of transportation is dramatic. Sea freight is currently 13 times less expensive than air freight; but 50 times slower in delivery. Natilus intends to revolutionize the transport industry by providing the timeliness of air freight at an affordable cost reduction of 60%, making air cargo transportation substantially more competitive."

Natilus aircraft use existing ground infrastructure and standard air cargo containers.

SEKO Logistics Streamlines International Cross-Border Ecommerce Using Descartes Solutions

Descartes Systems Group, the global leader in uniting logistics-intensive businesses in commerce, announced that SEKO Logistics is using Descartes' solutions for air cargo security filings and e-commerce customs clearance to speed processing time for more than 10 million parcels worldwide each month.

"Cross-border e-commerce is growing significantly and more customers are looking to us to simplify the complexity of filing security and customs entries as goods travel by air between countries," said **David Emerson, Global VP, Ecommerce Solutions at SEKO Logistics.** *"Descartes' high-level filing*

automation enabled SEKO to further manage the extraordinary volumes we're shipping. As SEKO expands internationally and regulations change, such as Brexit, Descartes has the solutions we need to grow."

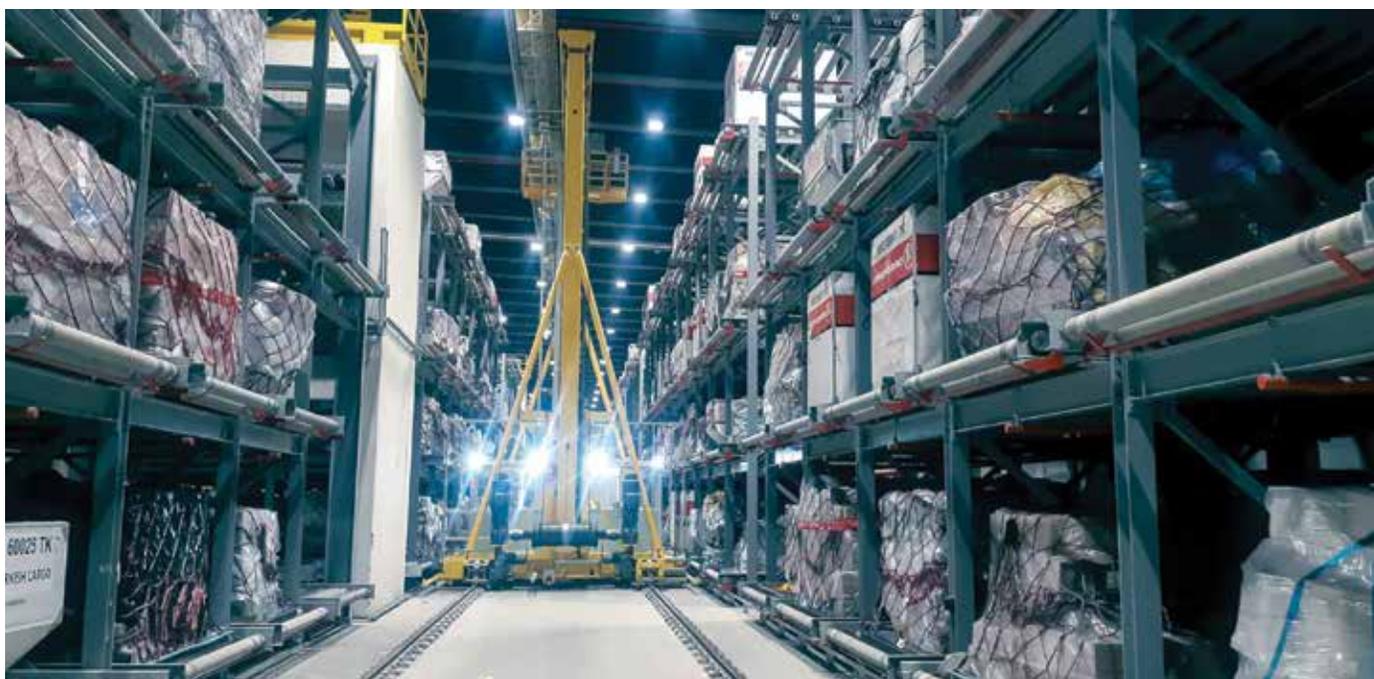
Descartes is a market leader in providing connectivity and air messaging services to customs authorities around the world. Descartes' solutions help shippers and freight forwarders, like SEKO Logistics, comply with security and customs requirements to electronically file air waybill information for shipment clearance, which accelerates the flow of air cargo, improves security,

enhances interagency communication, and decreases costs. For e-commerce shipments coming into the U.S., where the total value does not exceed US\$800, companies use Descartes' Section 321 Type 86 customs entry to automatically file basic shipment details at the air manifest level with U.S. Customs and Border Protection (CBP), which allows for the expedited import of goods without the payment of duties and taxes.

"We're pleased to help SEKO move a high volume of international e-commerce shipments more securely, compliantly, and efficiently," said **Scott Sangster, Vice President, Global Logistics Service Providers at Descartes.**

"With cross-border trade regulations constantly evolving, e-commerce can pose compliance and customer service challenges when transporting goods by air. Descartes has a long-standing track record of working proactively with customers and customs authorities to keep pace with change, so companies can electronically transmit security and fiscal declaration filings to government agencies more easily and reliably."





Lödige Industries to equip dnata's new, fully automated system at Amsterdam Airport Schiphol

Global air and travel service provider to open state-of-the-art cargo terminal in 2024



dnata, a leading global air, and travel service provider have contracted Lödige Industries, the world's leading provider of cargo terminal solutions, to supply their new cargo terminal at Amsterdam Airport Schiphol. Due to construction measures at Schiphol to improve airport infrastructure, it is necessary for dnata to move into a new terminal building, which is scheduled to become operational in 2024. The new building, developed by Schiphol Commercial | Real Estate and designed by the architectural firm DP6, will be equipped by Lödige Industries with a fully automated system to secure the future growth of dnata's customers at Schiphol.

Two separate automatic storage and retrieval systems (ASRS) with twelve stacker cranes are used in the terminal for import and export. 2,500 pallets can be stored here. Additional storage for up to 700 ULDs is served by four elevating transport vehicles (ETVs). To ensure flexible and scalable ULD transport within the terminal, dnata will also deploy seven intelligent automated guided vehicles (AGV) - a product innovation developed by Lödige Industries - that is being used here for

the first time on a large scale.

Smart gates, which automatically record the volume and weight of all incoming shipments through 3D scans and thus significantly speed up handling, are another special feature. This will once again substantially improve service quality. A comprehensive high-performance warehouse management system integrating all elements will enable dnata to further expand its operations and service at Schiphol. The high level of automation saves space and time, increases safety, and frees up staff for

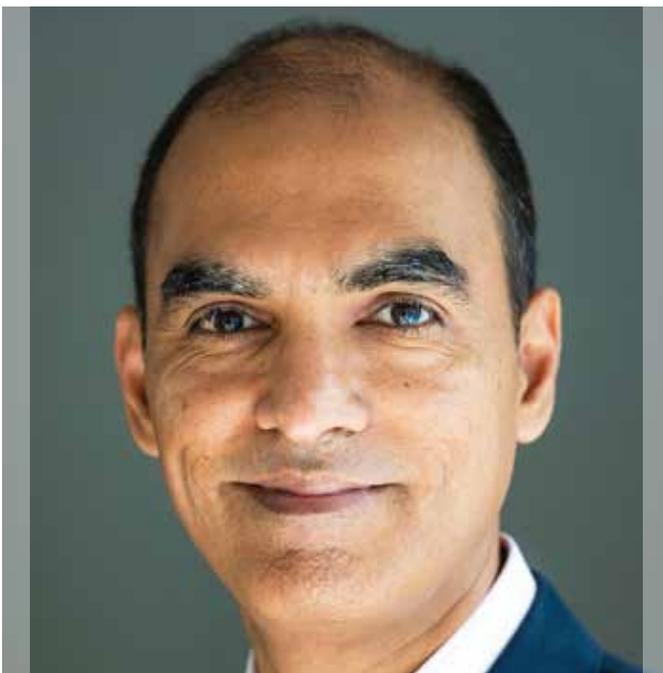
higher-value tasks

Jan van Anrooy, Managing Director of dnata The Netherlands, said: *“We are delighted to enhance our operations with a major investment at Amsterdam Airport Schiphol. Equipped with the latest technologies, our new terminal enables us to significantly expand our offering and meet the increased demand for our services. It will also help us consistently provide service excellence to our customers, ensuring the highest level of safety and quality at every stage of the handling process. We look forward to cooperating with Lödige*

Industries, a strong partner who shares our passion for innovation.”

“We are very proud of this new order from dnata, with whom we have already partnered very successfully in the past. The new terminal will place dnata at the forefront of modern air cargo operations. During the initial stages, our team worked very closely with the architects to ensure the new terminal can take full advantage of our high-tech automation solutions and support dnata in its growth plans,” says **Arthur van Brink, Managing Director Benelux, Lödige Industries.**

WFS Appoints Senior Vice President, Group Commercial Business Development and Strategy



WFS Appoints Senior Vice President, Group Commercial Business Worldwide Flight Services (WFS) has appointed Mohammed Esa as Senior Vice President, Group Commercial Business Development & Strategy.

Esa, as he's known to friends and colleagues, brings 30 years of global leadership experience in commercial and operational roles in the transportation and logistics industries, having spent the last 18 years at Agility Logistics, most recently as SVP Global Business Development & Global Lead Digital Customer Solutions. In this role, he was responsible for shaping and executing Agility's commercial strategy, building long-term customer relationships across various industry sectors, and overseeing the deployment of new and emerging technology solutions.

He previously also served as Agility's Chief Executive Officer & SVP of UAE, Oman & Bahrain, and as the company's VP Sales for the Asia Pacific region. Before joining Agility, he spent 13 years at Emirates Airline, based in Dubai, in Finance, Operations & Business Development roles.

At WFS, Esa's mission is to develop and oversee the implementation of WFS' commercial development strategies to ensure a fully integrated commercial approach to drive future growth. He will also help to identify and develop new lines of business and focus on the development of digital solutions which support WFS' customer experience and organic growth.

“Esa is a tremendous addition to WFS' already-strong commercial team. His business skills gained from such a successful career in the airline and forwarding industries, alongside his knowledge of international management cultures, and understanding of how digitization is driving customer relationships and business growth will be a great asset in the delivery of WFS' global commercial strategy. He will be a strong contributor to the next phase of our growth,” said **Barry Nassberg, Group Chief Commercial Officer at WFS.**

In his new role, reporting to Barry Nassberg, Esa will operate from the WFS Group headquarters in Paris, with regular travel across the company's global network.

Unilode appoints Ross Marino as new CEO



Unilode Aviation Solutions, the market leader in outsourced ULD management and repair services, announces the appointment of Ross Marino as Chief Executive Officer, effective 28 February 2022. Ross Marino succeeds Benoit Dumont, who has stepped down from his Chief Executive Officer position.

Ross Marino has over 30 years of aviation experience, having worked in numerous senior and executive management roles

at leading global ground handling organisations and airlines. He had a 15-year-long career at dnata, one of the world's largest providers of ground handling and air services, where he was instrumental in growing dnata into a leading global organisation, and most recently held the position of Chief Executive Officer Europe. He holds a Master of Science degree in Aviation from the University of New South Wales, Australia, and completed an executive

education programme at the London Business School.

John Hanna, Partner, Head of Europe, Basalt Infrastructure Partners, says: "We are very pleased that Ross has joined Unilode as its new CEO and are confident that he is the right person to continue driving Unilode forward in these very exciting and challenging times of the aviation industry. Ross is a proven leader with exceptional strategic and business development vision and broad aviation industry experience, and we look forward to growing Unilode's business together. I would like to thank **Benoit Dumont, Unilode's departing Chief Executive Officer,** for his leadership, commitment, and dedication over the past four years. During his tenure, Unilode undertook a massive transformation that saw the development of new services, the launch of digital solutions, the expansion of its network, and the growth of its customer base. We wish Benoit the very best in his future endeavours and

welcome Ross at the helm of Unilode."

Benoit Dumont says: "I am very proud of Unilode's great achievements and thankful for the exceptional drive and dedication of Unilode's staff, the trust, and support of its customers and investors, and wish every success to the organization and my successor Ross Marino."

Ross Marino, Chief Executive Officer, Unilode, says: "I am very excited to join Unilode in the role of Chief Executive Officer and build on the great foundation and growth potential of the business. Unilode's customer-focused and innovation-driven business strategy make it well-positioned for continued success. I look forward to continuing to provide high-quality services to our customers and developing the company with a clear ambition of capturing the opportunities in the markets we serve. I am committed to successfully leading Unilode in its next chapter of growth and look forward to working with my new team."

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