

# AVIATION UPDATE



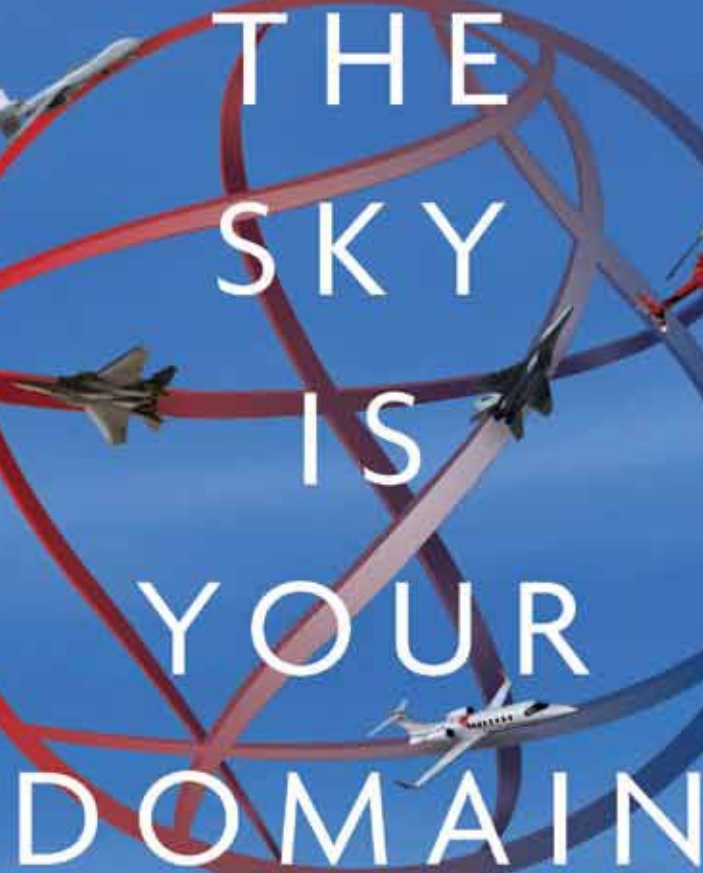
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# AVIATION UPDATE

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Fall seven times and  
stand up eight

## Greetings and Salutations

*Dear Readers,*

A moment of gratitude makes a difference in your attitude

We are glad to inform you that Aviation Update has successfully completed 3 years. In reminiscence; this year long journey has its fair share of hard works, challenges, accomplishments and heartbreaks. The most motivating factor was the support and guidance we received from the aviation industry mentors. We would like to utilize this opportunity to thank the aviation industry authority, delegates, professionals, aspirants and everyone who made a valuable contribution to our magazine. It was not possible for us to solely make this journey possible.

We also owe a lot to our subscribers who not only read the magazine but also gave us their valuable suggestions and feedbacks which we incorporated to make Aviation Update more reader friendly. To thank them we are providing an extra issue to our subscribers who have also completed a year with us. We would also like to inform our subscribers and readers that we are launching a digital cargo monthly magazine named as "e Cargo Update" which is our initiative to bridge the gap between cargo industry and cargo industry professionals. In this online magazine they will find anything and everything related to cargo industry on a click of a button. We look forward to receive your support for the cargo magazine as well.

We would also like to know from your end how has been your experience of reading Aviation Update so far has. Do you like its design, its information quotient or its tone of voice? Feel free to reach out to us with your feedbacks on our mail id; we will like to publish your feedbacks in our magazine in coming issues.

*Thanks*

*Kartikeya B.*

**B. Kartikeya**  
Editor

## ■ SKYWEST ORDERS 25 EMBRAER JETS FOR \$1.1B



Embraer announced a firm order agreement from SkyWest for 25 E-Jets. The order has a value of \$1.1 billion, based on current list prices, and will be included in Embraer's 2017 third-quarter backlog. All 25 aircraft are scheduled to be delivered in 2018.

Of the 25 aircraft, SkyWest will receive 15 E175 SC (Special Configuration) aircraft, in a 70-seat configuration. The E175 SC aircraft features an E175 airframe, which can be retrofitted to 76 seats in the future. SkyWest will also receive 10 E175s, in a 76-seat configuration, similar to aircraft SkyWest has previously ordered.

Including this new contract, Embraer has sold more than 360 E175 jets to airlines in North America since January 2013, earning more than 80% of all orders in the 76-seat jet segment.

Since entering revenue service, the E-Jets family has received more than 1,700 orders and over 1,300 aircraft have been delivered. The E-Jets are flying in the fleets of 70 customers in 50 countries. The versatile 70 to 130-seat family is flying with low-cost airlines as well as with regional and mainline carriers.

## ■ NORWEGIAN, PAX UP BY 14% IN AUGUST 2017



Norwegian low-cost airline, reported its traffic results for August 2017, revealing the total number of passengers flown in

August 2017 was 3,279,525 compared to 2,871,922 in 2017, an increase of 407,603 passengers (14 %).

Compared to the same period last year, the company reports the total passenger traffic (RPK) increased by 26 %, total capacity (ASK) increased by 24 % and the load factor increased by 1.4 p.p. to 91.1%.

The unit revenue (RASK) is estimated at 0.40 for the period (a decrease of 4 %). The average flying distance for the Group increased by 9 % in August compared to the same period last year. In August, the Group operated 99.7 % of its scheduled flights, whereof 76.8 % departed on time. Norwegian is the third largest low-cost carrier in Europe in terms of passenger numbers.

## ■ SPICEJET ADDS DIBRUGARH AS ITS 50TH DESTINATION



SpiceJet, the country's favourite low-cost carrier, announced the launch of its new domestic destination – Dibrugarh by introducing daily flight services on the Silchar – Guwahati – Dibrugarh route starting October 3, 2017. SpiceJet is the first airline to offer daily direct air connectivity between Guwahati and Dibrugarh.

SpiceJet is offering an exciting all-inclusive introductory promotional fare of INR 2199/- on the Guwahati – Dibrugarh route and INR 1898/- on the Dibrugarh – Guwahati route. Booking of tickets is now open. With the launch of the new service, SpiceJet will put Dibrugarh on the pan India aviation map through seamless onward connections on its network. This is in perfect sync with the airline's agenda to connect smaller cities and it further strengthens SpiceJet's focus on North-East India. SpiceJet will be operating its Bombardier Q400 aircrafts on the said routes.

## ■ STEWARDESS WINS LAWSUIT AGAINST AEROFLOT



Aeroflot flight attendant Evgenia Magurina, 42, filed a discrimination lawsuit against the carrier. According to Magurina, Aeroflot hired women who were a US size 14 or less. Women that gained weight would be paid less and barred from flying internationally, according to the initial complaint. Magurina was joined by fellow flight attendant Irina Ierusalimskaja, the two women calling ironically calling themselves "The Fat, the Old and the Ugly".

The airline initially denied the woman's claim. "Aeroflot does not place geographical restrictions on where individual members of cabin crew may fly," the airline's deputy chief executive for legal matters Vladimir Alexandrov told journalists back in April. During the same press-conference, Aeroflot officials admitted that there are special rules for women's appearance:

"Aeroflot is a premium airline and part of the reason people pay for tickets is the appearance of its employees," said a member of the airline's public council Pavel Danilin.

Court in Moscow held on September 6, ruled to pay Magurina 17 thousand rubles (\$296) as salary debt, as well as pay her compensation for moral damage in the amount of 5 thousand rubles (\$87). Also, it obligates Aeroflot to cancel internal rules, according to which the size of the stewardesses' clothes affects their salary. Nevertheless, the court refused to admit the fact of discrimination, stewardess's lawyer Mary Davtyan added.

Aeroflot did not have a comment on the lawsuit. In April, Magurina had her first lawsuit (which was declined) against the Russian airline. She demanded 500 thousand rubles (\$8,700) from the airline for moral damages by discriminatory requirements to flight attendants.



## ■ MALAYSIA AIRLINES SIGNS MOU FOR 16 BOEING AIRCRAFT



**B**oeing and Malaysia Airlines Berhad (Malaysia Airlines) signed a Memorandum of Understanding for 16 airplanes, which includes eight 787 Dreamliners and eight 737 MAXs. The announcement includes eight 787-9 Dreamliners by converting eight of Malaysia Airlines' existing order of the Boeing 737 MAX aircraft and eight additional purchase rights of the 737 MAX 8s as well as Boeing's Global Fleet Care service to maintain the national carrier's current and future Boeing airplanes.

"Malaysia Airlines is proud to sign this MOU for the widebody Boeing 787-9 Dreamliners and additional 737 MAXs, building on our more than 40 years of partnership with Boeing," said Peter Bellew, managing director and chief executive officer of Malaysia Airlines. "New widebody aircraft are a key to making Malaysia Airlines a premium airline offering a five star product again. The extraordinary range of the 787-9 gives an ability to operate to any point in Europe and some USA destinations in the future from Kuala Lumpur. The MOU with Boeing on their Global Fleet Care program will allow the two companies to build a world class MRO for the 737 MAX, 787 and 737NG based on Malaysia's existing facilities in Kuala Lumpur."

Malaysia Airlines currently operates more than 50 Next-Generation 737s and has an additional 25 737 MAXs on order, including 10 for the new 737 MAX 10.

"Boeing offers the very best widebody and single aisle airplanes in the world and we are delighted Malaysia Airlines continues to put its trust and confidence in Boeing with this MOU for 16 Boeing airplanes," said Kevin McAllister, President and Chief Executive Officer, Boeing Commercial Airplanes. "The 787 and the 737 MAX will provide Malaysia

Airlines with unmatched fuel efficiency, economics and a superior passenger experience as they continue to grow their business across Southeast Asia and beyond."

Boeing Global Fleet Care provides point solutions in the form of Engineering, Materials and Maintenance programs for air operators, accomplished through the use of decades of fleet data management, industry-leading technologies, and proprietary analytics and processes. Tailored to the individual airline, Boeing Global Fleet Care is a high-value, low-risk and efficient fleet maintenance operations solution that gives customers a competitive advantage in the marketplace.

## ■ INDIGO CONTINUES TO ENHANCE ITS CONNECTIVITY; ADDS 16 ADDITIONAL FLIGHTS



**I**ndia's largest and fastest growing low-cost carrier, IndiGo – has announced 16 additional flights across 6E network. Effective October 01, 2017, IndiGo will operate new flights between Hyderabad-Visakhapatnam, Delhi-Visakhapatnam, Amritsar-Delhi and Bhubaneswar-Delhi amongst other routes.

The new flights are designed to cater to business and leisure travellers who are constantly on the lookout for new and affordable flying options. These new services will further consolidate IndiGo's position as the fastest growing airline in India, with its 940 flights connecting 46 destinations across 6E network.

## ■ VISTARA ADDS RANCHI AS 21ST DESTINATION IN ITS EXPANDING NETWORK



**V**istara announced the addition of Ranchi as the 21st destination to its steadily expanding network. Effective October 29, 2017, Vistara will operate two flights a day between Delhi and Ranchi, providing a convenient same-day return option to travelers from both cities.

Commenting on the launch of the new destination, Mr. Phee Teik Yeoh, CEO, Vistara, said: "Jharkhand has immense potential for industrial development, with sectors such as steel, cement, electric, rubber, khadi, handicraft and textile flourishing. Ranchi, the gateway to the state, is also home to many government organizations, PSUs and R&D centres. It is also emerging as an educational hub for the region. The addition of Ranchi as a destination to our network will bring world-class air travel to corporate and business travelers, tourists, and residents of the state."

Having flown more than 6 million happy customers in a short span of less than three years, Vistara has expanded its network to 21 destinations with 660 weekly, and almost 100 daily flights operated by a fleet of 16 brand new Airbus A320 aircraft. The airline continues to grow and gain accolades as it redefines air travel in India.

## ■ CHANGI AIRPORT'S TERMINAL 4 OPENS ON OCTOBER 31, 2017

**C**hangai Airport has announced that its new Terminal 4 is scheduled to commence operations on 31 October 2017.

This follows the recent successful conclusion of major trials, with a small number of checks and reviews to be completed in the final phase of the preparations.

Terminal 4 promises boutique design and innovative use of technology as it is the first terminal at Changi Airport to offer end-to-end Fast and Seamless Travel (FAST) for departing passengers. FAST include self-service options at check-in, bag drop, immigration and boarding, as well as security screening, baggage handling, flight information, ground transport, way-finding, and transfer processes etc.

The first arrival and departing flights at T4 will be operated by Cathay Pacific – CX659 from Hong Kong (STA[1]: 0540 hours) and CX650 to Hong Kong (STD1: 0650 hours) respectively.

"T4 was conceived with the vision to rethink travel, push boundaries and break new ground," said Ms Poh Li San, Changi Airport Group's Vice President. "Through innovative concepts of operation and terminal design, we sought to address our capacity needs as well as improve efficiency and manpower productivity."

T4 has a total floor area of 225,000 square metres including the two-storey terminal, car parks and taxi deck. The project was completed after three years of construction. Although just half the size of Terminal 3, the terminal will have a capacity of 16 million passenger movements a year - two-thirds that of T3.

## ■ WIZZ AIR ALLOWS BUYING TICKETS WITHOUT PASSENGER'S NAME



**H**ungarian low-cost Wizz Air has recently introduced Flexible Travel Partner service which gives the opportunity to book tickets without naming all of the travelers.

When booking tickets for a group, passengers have to provide only one name. It is possible to include more passengers without adding their names for a fee of €10, according to Wizz Air's announcement.

It is necessary to pay the full ticket price and the fees of all selected services for all the passengers at the time of reservation. Passengers' names should be provided before check-in. If the names are not specified before check-in, the booking will be canceled.

Those passengers who have purchased Plus Fare, according to which registration for a flight takes place at the airport, must indicate all names not later than three hours before departure.

## ■ ETHIOPIAN AIRLINES PLANS TO SALE AND LEASE BACK TWO DH8-Q400



**E**mbraer announced a firm order agreement from SkyWest for 25 E-Jets. The order has a value of \$1.1 billion, based on current list prices, and will be included in Embraer's 2017 third-quarter backlog. All 25 aircraft are scheduled to be delivered in 2018.

Of the 25 aircraft, SkyWest will receive 15 E175 SC (Special Configuration) aircraft, in a 70-seat configuration. The E175 SC aircraft features an E175 airframe, which can be retrofitted to 76 seats in the future. SkyWest will also receive 10 E175s, in a 76-seat configuration, similar to aircraft SkyWest has previously ordered.

Including this new contract, Embraer has sold more than 360 E175 jets to airlines in North America since January 2013, earning more than 80% of all orders in the 76-seat jet segment.

Since entering revenue service, the E-Jets family has received more than 1,700

orders and over 1,300 aircraft have been delivered. The E-Jets are flying in the fleets of 70 customers in 50 countries. The versatile 70 to 130-seat family is flying with low-cost airlines as well as with regional and mainline carriers.

## ■ SPICEJET TO ENHANCE SERVICES FROM BELAGAVI AIRPORT



**S**piceJet has announced additional services from Belgavi airport. It will be the first airline to offer services between Chennai and Belgavi, October onwards. The low-cost carrier will also introduce daily flight services on the Bengaluru–Coimbatore–Bengaluru and Bengaluru–Madurai–Bengaluru sectors. Additionally, starting October it will add a second frequency on the Bengaluru–Belgavi–Bengaluru route.

"Our focus has always been on connecting key non-metro cities with the metro cities and thereby elevating the tier II and tier III cities on the pan India aviation map. These new flights will enable our passengers with more enhanced options thereby offering more flexibility and seamless connectivity on our network," says Shilpa Bhatia, chief sales and revenue officer, SpiceJet.

SpiceJet is offering all-inclusive one-way introductory starting fare of Rs3,099 between Chennai and Belgavi, Rs2,999 between Belgavi and Chennai, Rs2,197 between Bengaluru and Coimbatore, Rs1,949 between Coimbatore and Bengaluru, Rs2,149 between Bengaluru and Madurai and Rs1,949 between Madurai and Bengaluru routes. The second frequency between Bengaluru and Belgavi and Belgavi and Bengaluru is also being offered at an all-inclusive starting fare of Rs2,649 and Rs2,399 respectively.

## ■ INDIGO EXPANDS OPERATIONS IN WINTER SCHEDULE WITH 18 FLIGHT FREQUENCIES

IndiGo, India's preferred airline is further enhancing its customer experience with the launch of 18 additional flights on its network. Starting October 29, India's largest low-fare carrier, will operate its first daily flight between Amritsar and Bengaluru and also flight frequencies on key sectors such as Mumbai-Mangalore, Bengaluru-Dehradun, Delhi-Dubai, and Mumbai-Lucknow amongst other routes. With over 900 daily flights connecting 46 destinations, these new flights will enable both corporate and leisure travellers to experience IndiGo's unmatched ontime performance and hassle-free service.

Speaking about the network expansion, Mr. Aditya Ghosh, President and Whole-time Director, IndiGo said, "In line with our endeavor to meet the requirements of both business and leisure travellers, we have introduced 18 additional flights as part of the winter schedule. With the increased flow of tourists and business traffic across these sectors, IndiGo is pleased to provide additional frequencies and a direct daily flight between Amritsar and Bengaluru. We are looking at providing affordable fares on these new routes for 6E travelers. It is our constant endeavor to provide more flexibility of choice for our customers as IndiGo continues to offer them on time, hassle free and always affordable flying experience."

## ■ AAI'S SRINAGAR AND RAIPUR AIRPORTS AWARDED AS BEST AIRPORTS UNDER NATIONAL TOURISM AWARDS 2015-16

The Airports Authority of India's Srinagar International Airport, Jammu & Kashmir

and Swami Vivekananda Airport, Raipur, Chhattisgarh have been jointly conferred with the prestigious National Tourism Awards 2015-16. The President of India Shri Ram Nath Kovind, presented the award for Best Airport under 'rest of India' category at Vigyan Bhawan, New Delhi on the occasion of World Tourism Day.

The Ministry of Tourism, Government of India presents National Tourism Awards to various segments of the Travel, Tourism and Hospitality industry annually in recognition of their performance towards comprehensive development of tourism in the country. It is the first time that two airports jointly have been selected as best airports for their innovative style of functioning, pro-environment initiatives and passenger friendly approach.

Dr. Guruprasad Mohapatra, IAS, Chairman, Board Members and senior officers of Airports authority of India with prestigious National Tourism Awards 2015-16 in Best Airport category jointly won by Srinagar International Airport, J&K and Swami Vivekanand Airport, Raipur, Chhattisgarh.

## ■ FLYDUBAI, REVENUE UP BY 9.9% IN H1 2017



Flydubai has announced its Half-Year Results for the 2017 financial year and has reported total revenue of \$689 million an increase of 9.9% compared to the first six months of last year and a loss of \$38.8 million. Historically, the trend for the second half has been stronger than the first half.

Passenger numbers increased to 5.4 million; an increase of 10.5% compared to the first six months of 2016. The number of passengers carried per departure saw an increase of 13.7% for the same period. The increase in passenger numbers reflects the strength of flydubai network connecting previously underserved markets to Dubai.

The number of Business Class passengers carried per departure saw an increase of 22% compared to the same period last year.

In addition, flydubai contributed 19.4% to the total growth at Dubai Airports compared to the first half of 2016. During the first six months of 2017, flydubai contributed 12.4% of all traffic in Dubai.

The demand for travel on flydubai remains strong and the airline has seen its overall market share grow. These factors have, however, been offset by the price performance determined by the market. The airline also faced comparatively higher fuel expenses during the reporting period with fuel costs accounting for 24.8% of operating costs compared to 23.5% in the previous reporting period. In addition, the airline added 8 aircraft to its fleet since July 2016.

"The demand for travel from the growing number of our passengers remains strong," said Ghaith Al Ghaith, Chief Executive Officer of flydubai. "We will however continue to manage our cost performance and balance this with our long-term view of the potential for air travel in the region. We know that we need to remain flexible to the market dynamics across our network. We will continue our disciplined approach to increasing capacity whilst pursuing our broader goal of firmly establishing flydubai at the centre of the global travel industry."

## ■ SOUTHWEST AIRLINES, PAX UP BY 6.7% IN AUGUST, 2017



Southwest Airlines reports its August and year-to-date preliminary traffic statistics, revealing the increase of revenue passenger transported of 6.7% from 10,507,186 to 11,208,623.

The company flew 11.3 billion revenue passenger miles (RPMs) in August 2017, an



increase of 5.3% from the 10.7 billion RPMs flown in August 2016. Available seat miles (ASMs) increased 4.9% to 13.3 billion in August 2017, compared with August 2016 ASMs of 12.7 billion.

The August 2017 load factor was 84.9%, compared with 84.6% in August 2016. Based on these results, the estimated impact from Hurricane Harvey, and the current industry revenue environment driving weakness in revenue passenger yields, the company expects its third quarter 2017 operating revenue per ASM (RASM) to be in the range of down one percent to slightly up, year-over-year.

## ■ CATHAY PACIFIC FINALIZES ORDER FOR 32 A321NEO AIRCRAFT



Cathay Pacific Airways finalized an order with Airbus for 32 A321neo single-aisle aircraft. The aircraft will be operated by Cathay Dragon, the regional carrier of the Group, on services linking its Hong Kong home base with destinations across Asia. The purchase agreement firms up an MOU announced last month.

The new A321neo aircraft will replace and modernize Cathay Dragon's current in-service fleet of 15 A320s and eight A321s, with the additional aircraft allowing the airline to capture growth opportunities in the region. The Cathay Dragon network currently covers 56 Asian destinations, including 28 in mainland China.

Cathay Dragon is an all-Airbus operator, with a current fleet of 23 A320 Family aircraft and 24 widebody A330-300s. In addition, Cathay Pacific operates 37 A330-300s, making the Group the largest A330 operator in the Asia-Pacific region. Cathay Pacific also operates the all-new long haul A350 XWB, with 18 A350-900s already in service. The carrier has another 30 A350 XWBs on order for future delivery, including the A350-900 and larger A350-1000.

The A321 is the largest member of the A320 Family and seats up to 240 passengers, depending on cabin configuration. Incorporating the latest engines, aerodynamic advances and cabin innovations, the A321neo offers a reduction in fuel consumption of up to 20 per cent per seat.

## ■ SAUDI ARABIA TO HIRE FIRST WOMEN AIR TRAFFIC CONTROLLERS

The Saudi Academy of Civil Aviation offers one-year training for 80 women to prepare them for work in the air traffic control sector, Saudi Press Agency reports. Applicants must have a high school diploma with high marks and be between 18 and 25 years old.

"The applicants began taking admission exams recently for the Saudi Academy of Civil Aviation and will undergo a number of editorial tests," – the Saudi Press Agency announced in a report.

Saudi Arabia plans to create 80,000 job opportunities for women as a part of a reform called Vision 2030. This reform aims to wean the country off its oil dependence and diversify its economy. The number of women in the overall workforce should increase from 23 percent to 28 percent.

Most employed women work for the Kingdom's public sector, primarily in health and education. Last month women staffed an emergency call center at the Hajj pilgrimage for the first time. Also, from October 2, only women, and not men as it was before, will work in women's clothing stores across the entire country, according to the country's Ministry of Labor and Social Development.

## ■ SIA GROUP, PAX UP BY 5.1% IN AUGUST 2017

SIA Group reveals operating results for August 2017. According to statistic, in August 2017, SIA Group airlines' passenger load factor improved 1.2 percentage points

to 80.9%. Revenue passenger kilometers increased 5.1% compared to last year, outpacing capacity (measured in available seat kilometers) injection of 3.5%.

Singapore Airlines' load factor improved 0.4% to 80.4%. Passenger carriage increased 0.8% compared to last year, against a 0.4% rise in capacity. Stronger passenger demand to Asia, restructuring of the Americas network, and capacity adjustments to Europe led to stronger passenger load factor for these route regions, but declined for the South West Pacific route region. SilkAir's passenger carriage grew 25.6% year-on-year, surpassing capacity growth of 17.6%. Consequently, load factor improved by 4.8 percentage points to 75.8%, led by strong growth in demand in India, Maldives, China and South East Asia.

Low-cost airline Scoot recorded passenger carriage growth of 17.7%, exceeding capacity expansion of 12.6%. Consequently, load factor went up by 3.6% to 84.8%, boosted by improvements in all route regions. Demand on selected routes to India, Bangladesh and South East Asia continued to improve. During the month, Scoot took delivery of its third 787-8 aircraft fitted with crew rest bunks, for long-haul services, which led to a wide-body fleet of 15 aircraft compared to 12 a year ago. Overall cargo load factor was 2.9% higher, with growth in cargo traffic (measured in freight-tonne-kilometres) of 4.5% against capacity reduction of 0.3%. Cargo load factor improved across all regions except Europe, which remained stable.

## ■ SMALL PLANET AIRLINES TO ORDER 10 AIRCRAFT IN 2018



Leisure charter carrier Small Planet Airlines is expanding its fleet to 10 Airbus aircraft. One aircraft will act as a standby unit. The new aircraft announcement

comes as Small Planes Airlines are launching new destinations in winter 2017 and summer 2018.

The airline sees tremendous growth opportunities in Europe's largest market. "Our growing presence in Germany only proves that our efforts to obtain the Air Operator's Certificate (AOC) paid off," says Kristijonas Kaikaris, Small Planet Airlines CEO. "Upon starting our operations in Germany, we have gained trust from our business partners and passengers in regional airports. Now is the time to enter Germany's major airports".

Currently, Small Planet Airlines' fleet consists of 22 aircraft, which include 18 Airbus A320s and 4 A321s. In Germany, it utilizes 4 Airbus A320 aircraft with 180Y seats. The airline is planning further fleet growth in the upcoming year.

## ■ BOC AVIATION, NET PROFIT UP BY 13% IN THE H1 2017



**B**OC Aviation announced unaudited results for the six months ended 30 June 2017, reporting the net book value of aircraft, including assets held for sale, increase of 25% compared with the first half of 2016, to \$12.1 billion and the net profit after tax of \$240 million, up 13% compared to the same period last year.

### Financial results

The company also reported the rise of total revenues and other income by 16% to \$670 million, net profit after tax increase by 13% to \$240 million, total assets increase of 7% to \$14.4 billion. BOC Aviation earnings per share of are currently \$0.35, based on Shares outstanding at 30 June 2017 and the liquidity equals \$333 million in total cash and fixed deposits. In addition, the Board of Directors announced a change to the dividend policy, increasing the intended annual dividend to up to 35% of net profit after tax, up from 30% previously.

### Portfolio and order book

The portfolio utilization and cash collection from airline customers currently stand at of 99.6% and 100%, respectively. The company currently owns a portfolio of 297 owned and managed aircraft, with an average aircraft age of 3.1 years and an average remaining lease term of 7.8 years for the owned aircraft fleet, each weighted by net book value. The order book of BOC Aviation currently consists of 196 aircraft, including all commitments to purchase aircraft including those where an airline customer has the right to acquire the relevant aircraft, scheduled for delivery over the period from 1 July 2017 to 2021.

## ■ INDIA, JET FUEL PRICES UP BY 4% AS COUNTRY CURBS SUBSIDIES

**T**he jet fuel price in India has increased by 4%. With the Indian government trying to eliminate subsidies for fuel prices by March 2018, the country's oil companies have been steadily increasing fuel prices in accordance with the rising global rate, Hindustan Times reports.

The price of aviation turbine fuel in India has increased by \$29.79 from \$750.49 to \$780.28 per kiloliter. According to Economic Times India, it now costs \$780.28 per kiloliter for domestic airlines and \$848.86, \$822.71 and \$770.35 per kiloliter for Kolkata, Chennai and Mumbai accordingly. The news affected share prices of Indian carriers differently. While the share price of Spice jet fell by 0.38%, for Indigo it increased by 1.27% on September 2017.

The aviation fuel price change is expected to immediately reflect in the growth of flight ticket prices. Together with an ongoing economy slowdown, the change might shrink Indian aviation traffic growth in a longer-term perspective.

## ■ INDIA CLARIFIES ITS POSITION ON INDIA-DUBAI SEAT CAPACITY ISSUE

**I**ndia attempts to clarify its stance on the India-Dubai bilateral air traffic quota agreement. In attempt to do so, the country's Aviation Minister is meeting with airline representatives to figure out if the airlines agree to increase seat capacity in exchange for giving up their ambitions of getting the preferred slots at Dubai International Airport.

India and Dubai want to finalize the agreement to increase the current air traffic quota to 6000 seats a week. This is highly anticipated by the biggest Dubai's carrier Emirates, which is open about the ambitions to increase its network in India – a move, which is now unavailable as the airline is already utilizing its seat capacity limit to the fullest, according to Business Standard.

Now, the Indian carriers are also running out of their capacity entitlements, but according to the Indian officials have been changing their position on the issue. The problem that Indian airlines face is not only the air traffic quotas but also the struggle to get desired slots at Dubai International Airport, to which they are now offered an alternative at the Dubai World Centre airport that is located 37 kilometers from the main city.

## ■ JAPAN AIRLINES ORDERS FOR FOUR BOEING 787-8 DREAMLINERS



**B**oeing and Japan Airlines (JAL) announced an order for four 787-8 Dreamliners. The order is valued at more than \$900 million at current list prices and will expand JAL's Dreamliner fleet to 49 airplanes.

"This order for additional 787 Dreamliners, is a key part of our strategy as we look to bolster our existing route network and strengthen our position ahead of the 2020 Summer Olympic Games in Tokyo," said Yoshiharu Ueki, President of Japan Airlines. "The superior noise performance of the 787 will play a critical role in meeting our

commitment for quieter operations within our domestic network going forward."

Japan Airlines currently operates the second largest 787 Dreamliner fleet in the world, with 34 airplanes. The carrier is expected to receive its 35th Dreamliner, a 787-9 later this week. With this new order, Japan Airlines' 787 fleet include 29 787-8s and 20 787-9 airplanes.

"We are honored to partner with Japan Airlines once again as they further expand their world-class fleet with additional 787 Dreamliners," said Kevin McAllister, President and CEO of Boeing Commercial Airplanes. "JAL has been able to successfully grow its business over the years, while generating healthy profits due to the efficiency and reliability of their 787 fleet."

The order was previously listed on the Boeing Orders & Deliveries website, attributed to an unidentified customer. New airplanes will boost capacity on the airline's domestic routes, according to Boeing. Japan Airlines became the first airline in the world to take delivery of a 787 powered by fuel-efficient General Electric GENx engines in 2012.

## ■ BRITISH AIRWAYS TO CURB PENSION BENEFITS



**B**ritish Airways announced the closure of a main pension scheme for their workers. According to the new plan, there will be no future bonuses but already earned pension benefits will stay unchanged. The reason for this decision is "the significant and growing funding deficit" faced by the New Airways Pension Scheme (NAPS).

"Since 2003, the airline has pumped £3.5bn into NAPS, but the deficit – resulting from record low interest rates and increased life expectancy – had risen to £3.7bn by

March this year," BA said in statement.

For now, BA has an agreement with NAPS trustees to contribute between £300 million and £450 million a year until 2027 to fill in the deficit. NAPS have 17,000 BA staff members. Now they face uncertainty in their retirement, as Unite and GMB said.

"Our team of financial analysts has worked tirelessly with the airline over the last few months to explore ways to keep the pension scheme open and secure it for the future. This announcement sadly confirms that our advice has gone unheeded," the union mentioned in a statement.

## ■ EMBRAER CEO TALK'S TURBOPROP PLANE PLANS



**B**razilian aircraft manufacturer Embraer is mulling the idea of developing a new turboprop passenger aircraft, according to a speech given by the company CEO John Slattery on September 14 at an Aviation Club UK event. During the event held in London, Slattery talked about meeting carriers and discussing the possibilities in the turboprop sphere.

While not providing any concrete details about the plans, Slattery had mentioned "potential opportunities in the turboprop market", a segment heavily guarded by Canada's Bombardier and Europe's ATR. Slattery commented on the main competitors – Bombardier Q400 and ATR 72 – as being "decades old", hinting at the fact that there is room for a new contestant in the turboprop race.

"It is important to emphasize that Embraer is far from any decision to launch a new turboprop program and the process is in the evaluation phase," Embraer disclosed in an official statement. "This is an early, but key step, in establishing if there is a business

case for a modern turboprop platform."

Following the speech given by Slattery, Embraer's shares closed at 9.5% higher than the 50-day moving average.

## ■ US STARTUP AIRLINE GLO GOES BANKRUPT



**U**S startup airline GLO goes bankrupt after less than two years since it began its service in November 2015. The airline is ordered by the US federal judge to sell of its assets.

GLO is a subsidiary of US low cost carrier FlyGLO. The parent company filed for bankruptcy protection in April 2017 but, after the legal dispute with a third-party company responsible for the airline's crew, now is ordered to liquidate all belongings to pay out the debts.

GLO's flights have been suspended since July 2017, as the company searched for a new operator for its fleet of three 30-seat Saab 340B aircraft.

## ■ SPRINTAIR ACQUIRES SECOND ATR72F

**A**ELIS Group delivered ATR72-202F to Polish carrier SprintAir. This is the second airplane after MSN 488 in November 2016.

As with previous transactions, AELIS Group purchased this formerly passenger aircraft from CanaryFly, converting it into a freighter at Binter Technic and arranging the sale to the Polish carrier. AELIS Group managed the full conversion from passenger to freighter, reinforcing its position on the market.



SprintAir currently operates 12 Saab 340 cargo and passenger units, six ATR72s, of which five are cargo units and one is a passenger unit.

## ■ ALL NIPPON AIRWAYS TAKES DELIVERY OF ITS FIRST A321NEO



Japan's All Nippon Airways (ANA) had taken delivery of its first A321neo, becoming the launch operator of the version of the aircraft powered by Pratt & Whitney PW1100G-JM geared turbofan engines.

ANA's A321neo is configured for 194 passengers with 8 premium class seats and 186 economy class seats. ANA will start scheduled commercial services on domestic routes from October. The aircraft is the first for the airline to be used on domestic routes equipped with in-flight entertainment system for all seats.

ANA currently operates 16 A320 Family aircraft, with another 29 on order for future delivery. Parent company ANA HOLDINGS (ANA HD) also has three A380s on order.

The A321 is the largest member of the A320 Family and seats between 185 and 240 passengers, depending on cabin configuration. Incorporating the latest engines, aerodynamic advances and cabin innovations, the A321neo offers a reduction in fuel consumption of 15 per cent per seat from day one and 20 per cent by 2020 and can fly up to 4,000 nautical miles (7,400 kilometres) non-stop – further than any other single-aisle airliner.

## ■ CALC, ORDERS 50 NEW 737 MAX IN H1 2017

CALC, a full value-chain aircraft solutions provider for global airlines, announced

that during the first half of 2017 (ended June 30, 2017), it has delivered nine aircraft in first half of 2017 to new customers, of which six were delivered to overseas airlines, fleet size grew to 90 aircraft. Leveraging on our competitive advantages built over a decade, and as a key global aviation industry player, we continued to expand our fleet in the first half of this year and achieved a significant step forward by adding the Boeing 737 MAX series aircraft into our fleet for the near-term future," said Mike POON, Chief Executive Officer of CALC.

In the first half, the company completed the disposal of finance lease receivables for 10 aircraft as recurrent business, expanded and diversified its current client base to 20 airlines across eight countries and regions and placed its first purchase order with Boeing for 50 new 737 MAX series aircraft, scheduled for delivery in stages up to 2023.

Currently, the company has a fleet with an average age of 3.8 years with average remaining lease term of approximately nine years, 138 narrow-body aircraft on order. The Group expects to deliver 20 aircraft in the second half of 2017 and to expand its fleet to around 110 aircraft by the end of 2017

## ■ DAE DELIVERS THREE A320 AIRCRAFT TO VIVACOLOMBIA

Dubai Aerospace Enterprise announced its leasing division DAE Capital has completed the delivery of three Airbus A320-200 CFMI powered aircraft to new customer, VivaColombia. The three aircraft bearing serial numbers 3896, 3931 & 3949 were delivered in June and August respectively.

VivaColombia is Colombia's first ultra-low cost carrier and operates both domestic and international routes. The deal is structured to give the airline the flexibility to also operate the aircraft in the fleet of the recently launched sister company Viva Air Peru.

"We are pleased with the flexibility of the fleet solution provided by DAE Capital which has enabled us to bridge our fleet requirement ahead of receiving our new aircraft order from Airbus," said

William Shaw, VivaColombia CEO. "We look forward to further developing our business relationship."

"We are delighted to have been selected by VivaColombia to be part of their growth plans and look forward to further supporting their fleet financing requirements", said Firoz Tarapore, CEO of DAE. "Our team worked very closely with the VivaColombia team over a number of months to develop a deal that met the specific needs of a modern low-cost operator. These transactions demonstrate the capacity of the DAE platform to provide tailored solutions for our customers, whether they are starts-ups, regional airlines or legacy carriers."

## ■ WIZZ AIR PLANS 10 AIRBUS A321CEO PURCHASE

Wizz Air, Hungarian low cost carrier, announced receiving shareholder approval to purchase 10 additional brand new Airbus A321ceo aircraft from Airbus to be delivered during 2018 - 2019.

The announcement was made as part of Wizz Air's monthly traffic statistics announcement for August 2017.

Wizz Air is Hungarian low cost carrier with a headquarters in Budapest. It is the biggest Hungarian airline, but not a flag carrier. The company operates a single type Airbus fleet of 85 the A320 family aircraft including A320s and an A321ceo, and has 20 planes on order to be delivered in 2018.

A321 is the longest-fuselage member of Airbus' A320 Family with a seating options from a typical 185 passengers in a standard two-class cabin to 220 travellers in a more high-density layout. Benefitting from a cockpit commonality that reduces training and maintenance costs, the A321 also features Airbus' digital fly-by-wire control system. Pilots certified to fly the A321 can fly any member of the A320 Family and transition to other Airbus aircraft via training, saving time and reducing costs.

## P&WC AND AIR NEW ZEALAND SIGN CUSTOMIZED ENGINE SUPPORT AGREEMENT FOR 50 + AIRCRAFT

**P**ratt & Whitney Canada (P&WC) has signed an agreement with Air New Zealand to deliver an engine service and support programme covering more than 50 PW123M-powered Bombardier Q300 aircraft in the airline's Air Nelson fleet and PW127M-powered ATR72-500/600 aircraft in the airline's Mount Cook fleet. The agreement also includes installation of P&WC's FAST solution for advanced prognostics and engine health management on aircraft. P&WC has introduced a new enhancement to FAST that automates propeller vibration trend monitoring. The new capabilities put propeller balancing maintenance in 'on-condition' mode for a predictive and optimised environment designed to reduce operating costs and pilot and mechanic workload.



## AirAsia Goes Digital for Safety Management

**L**ow-cost carrier AirAsia has chosen Ideagen's cloud-based Coruson software for safety and risk management. The governance, risk management and compliance (GRC) software—formerly known as Gael Enlighten before a name change in February—is used by companies such as British Airways and Haeco Group for a variety of functions, such as incident reporting and investigation, safety reporting and response, regulatory compliance and quality management.

Coruson, which can be configured to a customer's unique requirements, will be used by AirAsia's auditors, risk owners and safety investigators. It also will be accessible to the airline's pilots, cabin crew and engineers for functions like safety event and hazard reporting. With Coruson, crew and ground operations can use smart forms to report incidents in the field, which will later be investigated and analyzed for

the root cause. The software's risk assessment, modelling and process automation functionality can then be used to prevent recurrence.

According to Captain Ling Liong Tien, AirAsia group head of safety, Coruson will standardize the airline's safety reporting and quality auditing. "The software will provide us with a modern interface, quick access to all safety data via one system and give us an immediate synopsis of business performance," he says. "In line with AirAsia's vision to be a digital airline, safety performance can be measured accurately using a wealth of data."

He added that the software will be a foundation for AirAsia's future growth plans. According to the airline, Coruson is fully scalable, so users can be added as necessary and a wider spectrum of data can be captured as AirAsia grows. The software rollout is scheduled to be completed by Q1 2018 and Ideagen says it will take a "train the trainer" approach so that AirAsia can have full ownership of the software's administration after initial configuration takes place.



## Vector Aerospace celebrates 100th P&WC PW150A engine delivery

**V**ector Aerospace Corporation, a global independent provider of aviation maintenance, repair and overhaul (MRO) services, announces that its Singapore facility has successfully serviced and delivered back to the customer its 100th Pratt & Whitney Canada (P&WC) PW150A turboprop engine.

Vector Aerospace Asia, located in the Seletar Aerospace Park, Singapore, is a P&WC Designated Overhaul Facility (DOF) for the PW150A engine series, equipped with a full overhaul and test capabilities. This facility, which is one of two independent PW150A DOFs worldwide, provides owners and operators of PW150A engines powering the popular Bombardier Q400 regional turboprop with MRO solutions.

"This 100th engine delivery marks a new milestone for Vector Aerospace Asia," said Jeff Poirier, president of Vector's Engine Services – Atlantic division. "Since its grand opening in 2015, the Singapore facility has focused on PW150A turboprop engine MRO service excellence, while consistently expanding its customer base."

"This achievement clearly demonstrates that our entire Singapore team has the expertise to execute to the highest quality and technical standards," added Bill Batchelor, general manager of the Singapore facility. "Our team is elated to hit such a milestone in our history. We are all proud of the work we've done and continue striving to set the standard of customer service."



## AFI KLM E&M to support Delta Air Lines A350 fleet

**A**FI KLM E&M has announced to have entered into an agreement with Delta Air Lines to provide component support for the US carrier's entire Airbus A350 fleet as well as a reciprocal component agreement which takes advantage of Delta TechOps component capabilities. The maintenance solutions to be performed by AFI KLM E&M cover component repairs and access to its A350 spares pool, primarily in the U.S. and Europe.

AFI KLM E&M is the only MRO providing A350 component support to airlines based in Europe, Africa, Asia and now Americas. AFI KLM E&M's global network, which includes several engineering and logistics facilities in Asia, allows for an efficient, fast-track response in the support offered to Delta.

This latest agreement bolsters a long-standing relationship between Delta and Air France KLM, which includes a trans-Atlantic joint venture and a recently-announced equity position that Delta plans to take in AIR FRANCE KLM Group. Extending the partnership into aircraft maintenance allows both airlines to provide MRO services and leverage each other's strengths through an exchange of work between both parties.

In addition to this relationship, Delta will benefit from the expertise and reputation of AFI KLM E&M with respect to component support in general and the A350 product in particular.

"Delta is one of the biggest airlines in the world, and AFI KLM E&M is proud to help it operate a new aircraft type," said Anne Brachet, Executive Vice President AIR FRANCE KLM Engineering & Maintenance. "With this new A350 contract, AFI KLM E&M is showing it is a major player in this emerging market, with an extensive, expert, and competitive service offer. This opportunity also opens the door to further MRO collaborations and we look forward to expanding our maintenance relationship."





## P&WC SIGNS (FMP(R)) AGREEMENT WITH AVIANCA

**P**ratt & Whitney Canada (P&WC) has signed a Fleet Management Program (FMP) agreement with Avianca to maintain its fleet of PW127N engines powering ATR72-600 aircraft. P&WC's FMP plan is a long-term, all-inclusive, pay-per-hour engine maintenance plan that will include the rollout of P&WC's FAST solution for advanced prognostics to Avianca's PW127N fleet. The combination of P&WC's FMP plan and FAST technology create a comprehensive solution for data-driven predictive and preventive engine and aircraft health management.

Tailored specifically to Avianca's fleet needs, P&WC's FMP plan is a flexible, high value engine management solution that helps support lower operating costs and simplifies fleet operations management. It also serves as a financial planning

tool to support more efficient cash flow management, while allowing airlines to focus on their core business of passenger and cargo transportation. Under this programme, a P&WC-appointed team of experts, in conjunction with Avianca, will manage PW127 fleet maintenance to help deliver better returns on the customer's investment, customer satisfaction, peace of mind and outstanding engine reliability.

On the advanced prognostics side, P&WC's turnkey FAST solution will provide situational awareness about engine health, usage and trends by capturing, analysing and sending full-flight data intelligence wirelessly minutes after the pilot shuts down the engines. FAST technology goes beyond traditional prognostics to give customers a turnkey solution for a fully connected, data-

driven engine for proactive and predictive enginehealth management. For Avianca's fleet of ATR aircraft, the FAST solution will also help optimise engine performance by tracking the usage of 'boost' and 'super boost' modes, which the pilot can engage when additional power is required during takeoff. More than 1,200 FAST solutions have been delivered across numerous platforms, including 20 regional airlines.

Under the FMP plan, Avianca will have full coverage for scheduled events, basic unscheduled engine repairs, low-cycle fatigue replacement, engine condition trend monitoring and engine freight, along with guaranteed turnaround time, customised support and more.

The FMP agreement is with the three airlines supported by Avianca Holdings: Aerovias del Continente Americano; Aviateca; and Isleña de Inversiones (Isleña). Avianca Holdings is the first customer for the PW127N.

## Air Canada orders three washing robots

**A**erowash has signed an exclusive distribution agreement with Service and Maintenance De Castel for the Canadian market. The agreement has resulted in Aerowash receiving an order for three washing robots from De Castel. The washing robots will be delivered to Canada's largest airline, Air Canada. The order is for the latest generation of washing robots.

"It is extremely gratifying that Air Canada, one of the world's ten largest airlines, has chosen Aerowash as a supplier," said Niklas Adler, CEO of Aerowash. "The order is the first for our brand new product range. Our products have generated a great interest in the market. I have a strong belief that this order will be followed by many more during the coming years. The order is strategically important for the entire North American market. I want to thank our employees and partners for a great job."



## TurbineAero appoints Mark Anderson as director of operations

**T**urbineAero has hired Mark Anderson as the Director of Operations for TurbineAero Repair (TAR), the Company's largest business segment providing MRO support of Auxiliary Power Units (APU) and related accessories. In this critical leadership role, Mark is responsible for leading all Repair & Overhaul and related activities for APU systems, Line Replaceable Units (LRU), and machined components.

Mark joins TurbineAero with more than 30-years of industry experience, including nearly two decades of rising through the ranks of Honeywell Aerospace. Mark recently led the \$300M APU business at Honeywell's Sky Harbor MRO in Phoenix, Arizona where he drove quality and delivery improvements across a product diverse and high-volume OEM Aftermarket center.

"I am excited that Mark has joined the TurbineAero family," said Steven Foust, TurbineAero's senior VP of operations. "He is a purpose driven leader whose deep background in APU maintenance will propel our operational performance and culture to the next level. His strong track-record of creating winning teams across multiple organizations, coupled with TurbineAero's customized service offerings, aligns well with our growth strategy."

"At the heart of TurbineAero's go forward vision, is industry defining service levels for our customers," said Rob Higby, CEO at TurbineAero. "To achieve this vision, it's imperative to hire great employees like Mark Anderson. Mark's experience, drive to succeed, and most importantly, his knowledge of running APU maintenance facilities makes him the ideal fit for TurbineAero."

## Airinmar signs repair cycle management agreement with Ameriflight

**A**irinmar, intelligent component repair cycle management solutions provider for commercial and defense customers, has signed a three-year agreement with Ameriflight, a cargo feeder airline based in US, to fortify its supply chain infrastructure and maximize performance, including repair cycle management and sourcing, and systems support.

"We are delighted that Ameriflight has selected Airinmar to be its industry partner in order to optimize their supply chain performance for scheduled and contracted services operating from their 18 bases to many destinations in the Americas," said Mike Humphreys, Airinmar President. "Ameriflight will be a great addition to our growing customer base in North America, and we look forward to working closely with them."

"Airinmar's services are aligned with Ameriflight's vision to increase our competitiveness by improving the efficiency of our supply chain," said Ameriflight Chief Operating Officer Bill Poerstel. "Our partnership with Airinmar will enable us to streamline our rotatable repair process, driving efficiency and cost savings for Ameriflight."

Ameriflight was founded in 1968 and has to an international operator and the nation's largest Part 135 cargo airline. Ameriflight is headquartered in Dallas, Texas, and has more than 500 employees including over 100 pilots and over 100 aircraft. Ameriflight provides feeder services for overnight express carriers such as UPS, FedEx, and DHL.

## The replacement for troubled Rolls-Royce Trent 1000 certified

**T**he European Aviation Safety Agency (EASA) has granted full flight certification for the Rolls-Royce Trent 1000 TEN engine. The upgraded model for the troubled Trent 1000 will power all variants of the Boeing 787 Dreamliner and is scheduled to enter into service later this year.

The Trent 1000 TEN incorporates technologies from the Trent XWB and Advance engine programs to deliver improved thrust and efficiency as well as contributing to the Boeing 787 Dreamliner having half the noise footprint of previous-generation aircraft. "This marks another critical step in our journey towards delivering additional capability and new technology for the Boeing 787 Dreamliner," said Dave Taylor, Rolls-Royce, Chief Engineer for Trent 1000.

Earlier this year, the Trent 1000 engine celebrated a hat-trick of firsts when it powered the first flight of the Boeing 787-10 Dreamliner, as well as the maiden flights of the 787-8 and the 787-9. More recently, the Trent 1000 TEN powered an 18-hour test flight during which a Boeing 787-8 Dreamliner test aircraft drew a giant outline of the plane across the United States.

However, despite these achievements, the predecessor of Trent 1000 TEN, the Trent 1000 model had more than a fair share of problems. The model, which entered service in 2011, experienced premature wear and corrosion problems in 2016.

The Japanese airline ANA had to replace engine blades of all 50 of its Boeing 787s the after corrosion and cracking of turbine blades caused three engine failures in 2016. Simultaneously, Thai Airways also had to ground some of its Boeing 787-8s for the Trent 1000 engine problem repairs.

The first quarter of 2017 for Rolls-Royce was marked by significant £2.1 billion profit loss. Despite the fact that company shares managed to bounce back more than 40% in the second quarter, during this period Trent 1000 repairs costs amounted almost half of the £59 million spent on technical costs.

## Joramco announces the addition of B737 MAX capability

**J**oramco, the Amman based MRO and the engineering arm of Dubai Aerospace Enterprise (DAE) announced the addition of B737 MAX to its existing capabilities. This capability has been approved by the Jordanian Civil Aviation Authority (JCARC) and the United Arab Emirates Civil Aviation Authority (GCAA).

"Adding the Boeing 737 MAX aircraft capability is considered a strategic milestone in our capabilities development plans as it will expand our airframe and service offerings to our customers" Mr. Amjad Korshlow, Joramco acting CEO commented. "This

addition shows our commitment to support existing and future customers who are operating the next generation of aircraft" Mr. Korshlow added.

Joramco is commercial aircraft maintenance, repair and overhaul (MRO) facility serving a range of customers in the Middle East, Europe, South Asia, Africa, Russia and the CIS countries, offering services on several aircraft models from the Airbus, Boeing, and Embraer fleets.

Located at a free zone area in Queen Alia International Airport in Amman-Jordan, with an infrastructure that includes 5 hangers that can accommodate up to 10 aircraft; Joramco is certified by a number of international & local regulatory authorities to include the Jordan's Civil Aviation Regulatory Commission (JCARC), U.S. Federal Aviation Administration (FAA), and the European Aviation Safety Agency (EASA).

## Rolls-Royce Trent XWB-97 receives certification

**T**he Rolls-Royce large civil aero engine Trent XWB-97, the latest variant of the Trent XWB, received formal flight certification, leading the way to the engine entering into service later this year. The news comes only a week after another Rolls-Royce Trent engine – Trent 1000 TEN received full flight certification. Certification of the 97,000lb thrust engine, which will exclusively power the Airbus A350-1000, builds on the 84,000lb thrust version of the Trent XWB which entered passenger service in 2015, powering the Airbus A350-900.

"We are very proud of the success of the Trent XWB programme and look forward to the newest variant of the engine entering into service later this year," said Andrew Gwynne, Rolls-Royce, Chief Engineer – Trent XWB. "We have worked closely with the teams at Airbus and EASA to achieve this certification and would like to thank them for their support."

Certification was granted by EASA (European Aviation Safety Agency). Over 1,600 wide body jet engines are already ordered by more than 40 customers worldwide. It comes less than a week after the Trent 1000 TEN engine, upgraded model for the troubled Trent 1000, which will power all variants of the Boeing 787 Dreamliner, received a similar level of certification from EASA. The Trent XWB-97's increased level of thrust relative to the Trent XWB-84 is achieved through a combination of new high-temperature turbine technology, a larger engine core and advanced fan aerodynamics.



## Air Canada and AAR signs MRO contract for Boeing 767 Maintenance

**A**AR and Air Canada announced signing a 5-year agreement to provide airframe maintenance for the airline's fleet of 34 Boeing 767 at AAR's Miami MRO facility. The contract will commence later this year and ramp up over three months.

"We have been pleased with the work performed by AAR on Air Canada's fleet," said Rich Steer, Air Canada's Senior Vice President, Operations. "This contract assures Air Canada of a quality solution for our Boeing 767 maintenance needs through AAR's extensive and proven capabilities in this field."

"We are excited to expand our long-term relationship with Air Canada to their 767 fleet," said Chris Jessup, Chief Commercial Officer, AAR. "Our Miami MRO is a world-class facility that can accommodate wide-body aircraft and provides good-paying jobs to American workers."

In addition to Miami, AAR's network includes airframe maintenance facilities in Indianapolis, Indiana; Oklahoma City, Oklahoma; Duluth, Minnesota; Rockford, Illinois; Trois-Rivières, Québec; and Windsor, Ontario, as well as component repair facilities in New York and Amsterdam; and landing gear services in Miami. Across these sites, AAR provides maintenance, repair and overhaul for regional, narrow-body and wide-body aircraft operators.



## Marshal of Indian Air Force Arjan Singh passes away

India's pride Marshal of the Indian Air Force Arjan Singh has passed away. Marshal of IAF Singh was admitted to Army's Research and Referral hospital this morning after he suffered a cardiac arrest, the defence ministry said.

Arjan Singh was a respectable figure of the Indian military history. Marshal of IAF, Arjan Singh had led a young air force into the 1965 Indo-Pak war when he was about 44-year-old. The Marshal has been awarded the Padma Vibhushan for his leadership during the war. The Marshal has flown over 60 aircrafts and remained a flyer until the end of his career with the IAF.



Five-star Marshal Arjan Singh retired in August 1969. In 2016, the crucial air base at Panagarh Air Force Station was renamed after the Marshal. Panagarh is also the headquarters of the newly raised 17 Corps – Mountain Strike Corps.



## Qatar to buy 24 Typhoon fighter jets

UK Defense Secretary announced Qatar's intent to proceed with the purchase of Typhoon aircraft and the further strengthening of the United Kingdom's defense relationship with the State of Qatar. The price per unit of the Typhoon is estimated at \$94-121 million. During a visit to the Gulf state, Defense Secretary Sir Michael Fallon and his Qatari counterpart, Khalid bin Mohammed al Attiyah, signed a Statement of Intent concerning Qatar's proposed purchase of 24 Typhoon aircraft.

Defense Secretary Sir Michael Fallon said: "After a number of years of negotiations between our two countries, I am delighted to have been able to sign today with Qatar's Defense Minister,

this Statement of Intent on the purchase of 24 Typhoon aircraft by Qatar."

In 2016, the Gulf country signed a \$7.5 billion deal to procure 24 Dassault Rafale fighters from France. The Eurofighter Typhoon is jointly built by Airbus, BAE and Leonardo (former Alenia Aermacchi) and has had 510 units built as of June 2017. The intention of Qatar to purchase a batch of fighter jets signifies a turn for the better for the producing consortium, which had been struggling with securing orders.

In July 2016, Austria announced retiring its 15-strong fleet of Eurofighter Typhoons starting 2020 due to "limited equipment and significant cost uncertainty"

Qatar is currently under an economic blockade from its neighboring countries that accuse Qatar of sponsoring terrorism at a state-level. The crisis has severely hit the country, with Moody's saying that Qatar has spent almost \$40 billion (almost a quarter of its GDP) supporting its economy during the first two months of the blockade.



## Indigenous Development of Trawl System by DRDO

**R**&DE (Engrs), a premier system engineering laboratory under Armament & Combat Engineering (ACE) cluster of Defence Research and Development Organisation (DRDO) has recently undertaken the design and development of Trawl System for the minefield area in the battle zone to meet the operational requirements of Indian Army.

The indigenous developed Trawl System is employed for breaching of land mines and creating a vehicle safe lane, through a minefield for the advancing columns of mechanized forces in combat zone. The equipment consists of Trawl roller, track width mine plough and electro- magnetic



device (EMD), which caters to the need of all types of mines usually encountered by the battle tank in such a scenario. The Trawl System developed by DRDO is capable of breaching a variety of land mines including passive and active influence mines.

The Trawl system recently crossed a major milestone with the successful completion of blast trials in collaboration with HEMRL Pune, which demonstrated the survivability of the equipment, when subjected to successive

series of blast directly underneath it. The fieldable prototype of the Trawl System is in final stage of realization and would be shortly ready for conduct of User Evaluation Trials by the Army.

The indigenous development of Trawls by DRDO is an important step towards achieving self-reliance in area of critical military equipment under 'Make in India' initiative and would result in saving of precious foreign exchange for the country.

## Boeing 702 Digital Satellite to Boost Connectivity for Intelsat Customers

**B**oeing has successfully supported seven out of seven satellite launches this year, including today's launch of a 702 high-throughput digital payload satellite, built for Intelsat.

Intelsat 37e sent and received its first signals from space shortly after it launched today on board an Arianespace Ariane 5 rocket. Once in service, the satellite will deliver high-throughput services to support enterprise, broadband, government and mobility applications in the Americas, Africa and Europe.

"This latest launch is an example of our emphasis on quality and reliability to deliver



the right products and capabilities to our customers," said Paul Rusnock, chairman and CEO, Boeing Satellite Systems International, Inc. "Boeing's market-leading digital payload technology gives our customers the flexibility to adapt to surges in demand for connectivity when and where it is needed, as well as adapt to any changes in their

business needs or missions."

Intelsat 37e is the second Intelsat EpicNG satellite built by Boeing to launch this year and the fourth Intelsat EpicNG satellite built by Boeing. Intelsat 35e, which launched in July 2017 from Cape Canaveral Air Force Base, Fla., was handed over to the customer last month.

## First A330 MRTT Phénix for France makes maiden flight

Airbus Defence and Space successfully completed the maiden flight of the first A330 MRTT Multi Role Tanker Transport for France. The aircraft, which will be known in French service as Phénix, is the first of nine ordered by the French Defence Procurement Agency DGA, plus another three expected to be confirmed.

It is the second new standard A330 MRTT to fly, featuring structural modifications, aerodynamic improvements giving a fuel-burn reduction of up to 1%, upgraded avionics computers and enhanced military systems. The aircraft was converted in Getafe from a standard A330 assembled in Toulouse. The crew reported that the aircraft performed in line with expectations during the 3h 25min flight.

The Phénix fleet will be equipped with a combination of the Airbus Aerial Refuelling Boom System (ARBS) and underwing hose-and-drogue refueling pods, and can carry 272 passengers or be configured for medical evacuation. First delivery is due in 2018. Fifty-one A330 MRTTs have been ordered by eight nations of which 28 have been delivered.



## Boeing wins \$600M Air Force One bid

When President Donald Trump took office, he made it clear that he wanted to cut costs for the next generation of Air Force One, the primary presidential aircraft.

Boeing announced recently that it has been awarded an almost \$600 million contract for the preliminary design of the next Air Force One. The contract stipulates that the aerospace giant will create design that incorporates a mission control system, medical facility, electrical power upgrades, self-defense system, and autonomous ground operations capabilities into two already-built commercial 747-8 planes. It's a "great step forward on the next Air Force One," Boeing said in a statement.

The new models will replace the VC-25A models currently in use. Those aircraft have been in service since 1990, during the administration of President George H.W. Bush. The 747-8 promises 16 tons less carbon emissions per trip over the 727-200 and has an extended range that allows trips from Washington to Hong Kong—7,730 nautical miles—without a layover. It's also the fastest commercial jet in the world with speeds of 0.855 Mach.

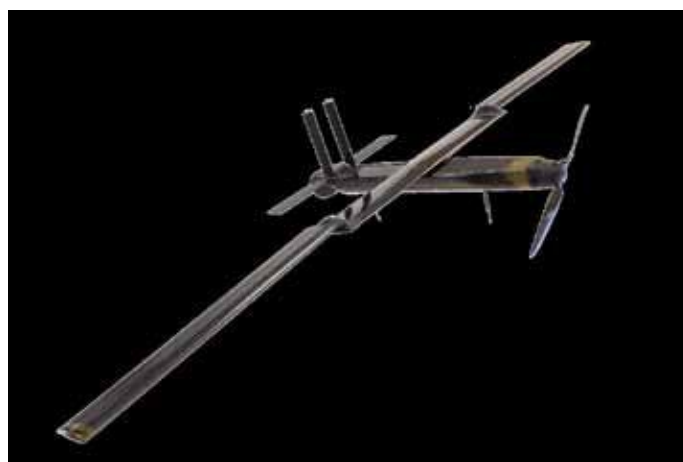
In January Boeing CEO Dennis Muilenberg said the company was making "great progress on simplifying requirements for Air Force One" in the wake of Trump's cost complaints. The President—who arrived in office already a Boeing customer, having acquired a 1991 757-200 as a citizen and remodeled it to include a dining room, televisions, master and guest bedrooms, and a shower—originally called its costs "out of control."



## Lockheed Martin Unveils a new lightweight canister launched UAS

**L**ockheed Martin unveiled a new small unmanned aircraft system (UAS) that has been designed and developed in the UK. OUTRIDER is a lightweight, canister launched UAS that has been designed by engineers at Lockheed Martin UK's Havant facility in partnership with Wirth Research, an engineering company with specialization in aerodynamics and composite materials. At only four inches wide and weighing only 1.7 kilograms, it is designed to be used in environments where conventional, larger unmanned air systems are not practical. Despite its size, OUTRIDER can travel up to 50 knots and boasts the best payload capacity and endurance when compared with similar UAS's.

Launched at the press of a button, OUTRIDER can be operated remotely or has the ability to be autonomous. It features a high-definition TV and infrared camera to give the operator enhanced situational awareness. The versatility of OUTRIDER means it has potential military, civil or commercial use and Lockheed Martin UK plans to offer it to market both in the UK and to interested export customers too.



"We are proud to offer OUTRIDER which has been designed and built in the UK for the international market. It provides secure leading edge situational awareness capabilities in its class for ground, surface, air or Sub-surface operational environments and can be launched at the press of a button," said Paul Livingston, vice president and group managing director, Lockheed Martin UK - Integrated Systems.

Designed with export possibilities the OUTRIDER can be supplied in an entirely International Traffic in Arms Regulations or ITAR free configuration to address the wide commercial and military market needs.

## Bahrain to buy F-16V aircraft for \$2.78B

**T**he US State Department has made a determination approving a possible Foreign Military Sale to the Government of Bahrain for F-16V aircraft with support. The estimated cost is \$2.785 billion.

The proposed sale improves Bahrain's capability to meet current and future threats. Bahrain will use the capability as a deterrent to regional threats and to strengthen its homeland defense," a statement from the Defence Security Cooperation Agency says. "This purchase of F-16Vs will improve interoperability with United States and other regional allies. Bahrain employs 20 older F-16 Block 40s and will have no difficulty absorbing these aircraft into its armed forces".

The proposed sale of these aircraft will not alter the basic military balance in the region, according to the Agency. The prime contractor will be Lockheed Martin. There are no know offset agreements proposed in connection with this potential sale.



## Deliveries of 5th-gen fighters to Russian troops to begin in 2018

**D**eliveries of the fifth generation Su-57 fighters to Russian troops will begin in 2018, said Industry and Trade Minister Denis Manturov during the opening ceremony of the Armiya-2017 forum.

"The tests of the newest Russian 5th-gen fighter, which has been recently officially named Su-57, are nearing completion. First deliveries to the army are expected next year," Manturov announced to journalists.

Manturov added that the Russian defense industry has become the driving force for the development of the entire industry. In recent years, it has been growing at an annual rate of 12.5%, the minister said.

## Iranian drone fly-by endangered US pilots, Navy says

**A**n Iranian drone has flown close enough to a U.S. aircraft carrier to put the lives of American pilots of F-18 fighter jets at risk, the U.S. Navy said on August 14, RFE/RL reports.

In the second such close encounter in a week, an Iranian QOM-1 drone late on August 13 flew within 300 meters of the USS Nimitz in an "unsafe and unprofessional" manner without its lights on, said U.S. Naval Forces Central Command spokesman Lieutenant Ian McConnaughey.

Controllers for the drone did not respond to radio requests for communications, he said, adding that the drone was unarmed but that it was a model that can carry missiles. McConnaughey said flying the drone without lights "created a dangerous situation with the potential for collision" and was not in keeping with international maritime customs and laws.

U.S. officials have complained of 14 such unsafe close encounters this year, almost always involving Iran's Islamic Revolutionary Guards Corps, which Washington recently targeted with sanctions.

Last week, officials said an Iranian drone nearly collided with a U.S. fighter jet that was landing on the aircraft carrier. Iran's Islamic Revolutionary Guards Corps issued a statement on August 15 saying their drones are guided "accurately and professionally," dismissing the U.S. Navy's concerns as "unfounded."

## AN/APR-52 Radar Warning Receiver tested successfully

**A** critical component of Lockheed Martin's Tactical Mission System for the US Air Force Combat Rescue Helicopter (CRH), the AN/APR-52 Radar Warning Receiver (RWR) has achieved Technical Readiness Level 6 assessment following a successful demonstration at the US Air Force Integrated Demonstrations and Applications Laboratory at Wright Patterson Air Force Base in Dayton, Ohio.

This key milestone provides confidence in the technical maturity of the AN/APR-52 RWR more than one year before HH-60W's first flight test.

The Integrated Demonstrations and Applications Laboratory is a division of the Sensors Directorate of the Air Force Research Laboratory and specializes in the evaluation of electronic warfare technology by providing high fidelity simulations in relevant threat environments, similar to what the system will see in actual combat and specific regions of the world, representing significant risk reduction for the program.

"Although extensive contractor testing

was previously conducted on the AN/APR-52 RWR, the USAF laboratory provides a unique capability that allows high-fidelity demonstration of the system in a true operational environment. The successful demonstration is a key milestone to ensure the system will meet the needs of the warfighter. The complete electronic warfare suite will significantly improve detection of current and emerging threats which increases the survivability of the HH-60W," said Bob Adams, Lockheed Martin Electronic Warfare Programs director.

The Lockheed Martin AN/APR-52 RWR is an all-digital, four-channel radar warning receiver. It is designed to process a large number of signals simultaneously to more quickly and accurately identify threats to the aircrew. The AN/APR-52 RWR provides a high probability of detection for modern and emerging threats in very dense signal environments.

The US Air Force awarded Sikorsky, a Lockheed Martin Company, the Combat

Rescue Helicopter contract in 2014. The USAF Program of Record calls for 112 helicopters to replace the Air Force's rapidly aging HH-60G Pave Hawk helicopters, which perform critical combat search and rescue and personnel recovery operations for all US military services. In May 2017, the CRH Program conducted the Air Vehicle Critical Design Review, a crucial event that prepares the program to proceed to assembly, test, and evaluation of the HH-60W helicopter.

The HH-60W is an advanced variant of the UH-60M Black Hawk helicopter design and features increased internal fuel capability for greater range. The CRH aircraft will feature GE T700-701D engines, composite wide-chord main rotor blades to sustain maneuverability at high density altitudes, and a new fatigue- and corrosion-resistant machined aero-structure to ensure reliability and availability to USAF operational units. The design includes an advanced Tactical Mission System integrating multiple sensors, data links, defensive systems, and other sources of intelligence information for use by combat rescue aircrews. The aircraft is designed with a weapons and cabin configuration specifically optimized for combat rescue and recovery operations.

## ALASKA AIR CARGO REVEALS FIRST CONVERTED 737-700 FREIGHTER

**A**laska Air Cargo has inaugurated the world's first converted Boeing 737-700 freighter aircraft. According to the carrier, the aircraft was converted by Israel Aerospace Industries and has entered commercial service transporting goods from Seattle to the state of Alaska.

"This one-of-a-kind aircraft marks the beginning of a new era at Alaska Airlines," said Wayne Newton, vice president of airport operations and customer service at Alaska Airlines. "With an all-freight fleet, our cargo business is now a stand-alone operation, allowing us to better focus on the needs of our cargo customers."

The freighter was converted over 19 months in Tel Aviv, and was flown via Belfast and Bangor, Maine to Greensboro, North Carolina for scheduled maintenance, and then to Victorville, California to be painted before arriving in Seattle. The 737-700 freighter is smaller than Alaska's existing 737-400 freighter but has a maximum net



payload of approximately 19 tonnes and a non-stop range of 3,200 miles.

"The new freighter will transform our cargo business and allow us to provide more efficient and consistent service," said Jason Berry, managing director of Alaska Air Cargo. "Now we can move more freight than ever before, and optimize schedules to meet the needs of our cargo partners."

## Volga-Dnepr freighter makes special mining delivery to India



**C**harter broker Air Charter Service arranged for transport of a 27-tonne outsize drilling machine from Perth, Australia, to Ahmedabad, India, onboard one of Volga-Dnepr Airlines' IL-76TD-90VD freighters. The drilling machine,

which measures a whopping 15 meters long by three meters high, was destined for a mining project in Ahmedabad.

"Weeks of planning went into the charter and we worked very closely with the Volga-Dnepr loadmaster on the day to make sure that the awkward-shaped drilling machine was loaded with the minimum of fuss," said Shahvez Jafary, ACS India's commercial director.

Loading required the creation of a special plan to account for clearance between the height of the drilling machine and the freighter's rear-loading door. The machine was loaded into the freighter using the IL-76TD-90VD's onboard winches.

## August sees another double-digit cargo growth for AAPA members

**T**he Association of Asia Pacific Airlines (AAPA) released traffic figures for August, and it comes as no surprise that the good times are still rolling for air cargo with another month of double-digit demand growth.

AAPA member airlines reported 12.2 percent year-over-year growth in freight tonne kilometers (FTKs) for the month of August and rapidly outpaced freight capacity growth of 5.6 percent, leading to another increase in their collective freight load factor of 3.8 percentage points, y-o-y, to 64.1 percent for the month.

As was the case with July's AAPA figures, solid global business conditions and manufacturing sectors – pharmaceutical products and technological equipment in particular – contributed to the demand increase for August. Year-to-date, Asia-Pacific-based airlines have seen a 10.6 percent increase in freight traffic, compared with the same period in 2016, said AAPA director general Andrew Herdman.

AAPA's outlook for air cargo in the months ahead and beyond is also positive. "Broad-based expansion in global economic output should help to sustain further growth in both air passenger and air cargo traffic demand in the upcoming months," Herdman said. In a more cautious note, he added that Asian carriers today face "highly competitive air fares and rising costs" – challenges which Herdman said in earlier months will require a focus on cost-management to meet.



## Cathay Pacific August results mirror industry-wide strength in cargo demand

Cathay Pacific and its subsidiary carrier Cathay Dragon reported an uptick in cargo volumes of 12 percent year-over-year in August, in line with large y-o-y increases reported so far for August by other carriers in Asia and in the Americas, as airfreight demand growth remains strong.

Cathay airlines reported total cargo volumes of 172,253 tonnes for August, while its load factor edged up by 2.2 points to 65.5 percent, and capacity in available tonne kilometers rose by 7.5 percent. Year-to-date, cargo volumes are up 11.9 percent to more than 1.3 million tonnes. Cathay Pacific director of commercial and cargo Ronald Lam attributed August cargo results to strong demand from the airlines' key markets, with cargo tonnage significantly outpacing growth in capacity for imports and exports.

Looking forward, Cathay said cargo trends are improving, with Lam adding that Cathay will "plan to operate our maximum freighter schedule in order to match the forecast surge in demand from various new product launches."

## Volga-Dnepr, Airbus Defence partnership delivers Sentinel-5P satellite

The partnership between Volga-Dnepr Airlines and Airbus Defence and Space cooperated on a special delivery for the European Space Agency, transporting a Sentinel-5P satellite from London Stansted Airport (STN) to Arkhangelsk, Russia, using an An-124-100 freighter before the satellite completed the last leg of its journey to Russia's Plesetsk Cosmodrome spaceport by train.

The satellite made the journey to Russia in a special container weighting six tonnes. The loading process utilized the An-124-100F's internal crane and required two nitrogen purge containers to keep the specialized container's nitrogen levels full.

The Sentinel-5P satellite is designed to map the entire earth every day and deliver global maps of air pollutants including trace gases and aerosols. Volga-Dnepr said in a statement that satellite transports forward bookings extend through the rest of 2017 and 2018, indicating a healthy outlook for the specialized transportation market.



## ANA CARGO CELEBRATES 15TH ANNIVERSARY OF FREIGHTER SERVICE

ANA Cargo has entered the 16th year of freighter operations. The carrier inaugurated its freighter services 15 years ago with the first Boeing 767-300 freighter in Japan, flying two round trips a day between Tokyo Narita and Qingdao.

"Until then, ANA's cargo was a secondary business, utilizing passenger flights' belly space, but when seeing the active, strong cargo demand in China and other Asian markets, we thoroughly had an internal study whether or not to operate freighters on our own, and eventually came to a positive conclusion," said Toshiaki Toyama president of ANA Cargo, speaking at a celebratory event in Shanghai to mark the anniversary. "Ever since, we, ANA, have been expanding our destinations in China, such as Hong Kong, Tianjin, Dalian, Xiamen, Shanghai and Guangzhou, and our current freighter network covers seven cities and airports in China with 64 weekly flights. On the other hand, effectively combining our freighter space with our passenger flights, with 214 weekly flights operating to 11 Chinese cities and 12 airports, enables us to establish a competitive air cargo transportation network to cope with various market needs."

ANA is the only Japanese carrier with both passenger and freighter aircraft, and was ranked 10th in the world according to the International Air Transport Association's 2016 rankings for air cargo tonnage. "In 2009, we established our Okinawa cargo hub in Naha, a 24-hour airport," said Yutaka Ito chairman of ANA Cargo. "Presently possessing 12 767 freighters, ANA Cargo is to also effectively utilize ANA group's passenger route network as a combination carrier, aiming to become an airline integrator. ANA Cargo is to further expand its network to cope with the increasing cross border e-commerce business between Japan and China, and develop new value-added or high-quality services so as to meet the customers' requirements."

According to Masahiro Yoshida, vice president of ANA's regional headquarters for cargo in China, approximately 40% of ANA's cargo from China is destined for Japan, while the remaining 60% is either bound for Asia via Okinawa or bound for Europe, India, Oceania or the US via Tokyo. Commodities carried include perishables such as eels and mushrooms, apparel, computer-related electronic components and automobile parts.

## Atlas takes pilots to court over 'intentional work slowdown'

**L**abor relations between Atlas Air Worldwide Holdings (AAWW) and Teamsters Local Union No. 1224 (IBT), which represents the airline's pilots, took a nosedive recently, with AAWW announcing that it was seeking a preliminary injunction to require its pilots to "stop the illegal and intentional work slowdown and service interruptions they are causing."

In its filing, Atlas accused the pilots of an "unlawful, concerted work slowdown to gain advantage in pilot contract negotiations currently underway with the IBT." The company went on to say that the work slowdown and service interruptions "are causing significant flight delays and harm to the company and its valued customers."

William Flynn, president and CEO of Atlas Air Worldwide, released a statement that read: "The deliberate campaigns and resulting pattern of disruptive behavior encouraged by the IBT over many months clearly establishes the IBT's unlawful intent to gain advantage in the pilot contract negotiations currently underway. It is clear that the changes in behavior have been orchestrated by the IBT through such actions as the 'BOOT' [block out on time] and 'SHOP' [stop helping out Purchase] campaigns, as well as encouraging members to call in sick and fatigued at unprecedented levels and on short notice."

Where the airline and its pilots diverge, however, is over what's causing the slowdown. During its ongoing attempts at reaching a settlement with AAWW, pilots have spent months warning of delays, which they attributed to a contract-related pilot shortage. The union says that Atlas is unwilling to grant them a contract that is up to industry standards, resulting in low morale and an exodus of pilots.

Atlas has maintained that it doesn't have a pilot shortage, and this week's filing indicates that the airline blames union tactics, rather than a lack of pilots. In May of this year, Atlas told ACW that it employed more than 1,700 pilots at the end of 2016, an increase of almost 600 since the end of 2014.

Daniel Wells, president of APA Teamsters Local 1224 disagreed, arguing that the lawsuit was, "part of the company's ongoing efforts to abdicate responsibility for its failures and refusal to address the long-expected decline in global pilot supply."

## DP-DHL introduces Resilience360 tool to identify supply chain disruption risk

**D**eutsche Post DHL Group aims to encourage logistics providers to consider and prepare for impacts caused by events like hurricanes Harvey, Irma and Maria, and has introduced a risk-management tool called DHL Resilience360 with the goal of allowing its customers "to detect future obstacles along the supply chain and take early actions to mitigate business risks," says Tobias Larsson, the head of Resilience360, and DHL customer solutions and innovation.

Resilience360 is a cloud-based platform that combines DHL's risk exposure index, which is weighted across about 30 risk categories, with supply chain and business impact data from its customers to predict future obstacles.

In an example of the type of notice Resilience360 provides, DHL said that analytics from the platform predicted shortages of chemicals surrounding widespread U.S. Gulf Coast production outages during Hurricane Harvey, and the likely impact of those shortages on the automotive, life sciences and healthcare and electronics industries. A company that needs those chemicals, and receives the prediction that production in and supply from the area could be cut off by the storm, could pre-order the necessary supplies ahead of time.

In addition to providing warnings about potential incidents, the platform is also designed to give insight on potential bottlenecks in the supply chain and sector-specific analysis based on risk profiles for geographically mapped suppliers. "We are currently looking into alternative re-routing suggestions as well as shipment delay predictions, to forecast the likelihood and the potential duration of shipment disruptions for risk events along transportation hubs," says Rick Tillenburg, senior customer operations analyst at Resilience360.

## Atlas secures ACMI deal for 747F operation on behalf of DHL Global Forwarding

**A**tlas Air Worldwide Holdings is placing a 747-400 freighter with Deutsche Post DHL Group's ocean- and airfreight forwarding arm DHL Global Forwarding through an ACMI deal, and will operate the freighter on DHL Global Forwarding's behalf.



According to a statement from Atlas, operations through the ACMI arrangement will begin this month for routes between the United States, Europe and Asia.

Brussels (BRU) and Shanghai Pudong (PVG) airports will serve as key points on the new route, which will run three times per week.

Atlas has made several moves recently to increase its presence in the Asian airfreight market, including ACMI placement of three other 747-400F aircraft with Hong Kong Air Cargo Carrier Ltd. in August and a CMI agreement to operate an additional 747-400F aircraft for Nippon Cargo Airlines beginning this month.

## Siemens gets order to digitize dnata's Dubai cargo operations

Air cargo keeps getting smarter, and operators in Dubai are eager to be on the cutting edge. With that goal in mind, ground handler and cargo terminal operator dnata placed an order with Siemens Postal, Parcel and Airport Logistics for a cloud-based software platform to manage dnata's Dubai cargo operations.



The order expands Siemens' already extensive Dubai footprint, which includes a partnership for the baggage and air cargo systems at Dubai International Airport and Al Maktoum International Airport, and dnata's terminal operations in Dubai via Siemens' Cargo Compact software, according to a statement from both companies.

The new order will include an appointment system for digital handling of all land transport processes up to the cargo hub's dockside, the announcement said, allowing for digital cooperation with freight forwarders, agents and airlines. The Dubai platform will be based on AX4 software from Siemens' subsidiary Axit, which the company acquired in 2015.

Based in Dubai, dnata handles air cargo services for about 200 airlines globally and offers in-flight catering services and travel management in addition to ground and cargo handling.

## QATAR BECOMES LATEST 747-8F OPERATOR

Qatar Airways has placed an order for two 747-8 Freighters and four 777-300ERs from Boeing, and has taken delivery of the first 747-8F. "The addition of our very first 747-8 Freighter is a significant moment for our cargo division, and a welcome addition to our 20-strong cargo fleet of wide body aircraft," said Akbar Al Baker group chief executive of Qatar Airways, speaking at a ceremony at Boeing's delivery centre in Everett, Washington.

"As the world's third-largest cargo operator, Qatar Airways continues to invest in fleet expansion, with a second 747-8F due to be delivered in November. This reflects our confidence in Boeing to continue to deliver an outstanding product that meets our exacting standards. We expect no less than perfection, and we are confident that Boeing will continue to deliver that."

Qatar Airways joins other major cargo carriers such as AirBridgeCargo, Atlas Air, Cargolux, Cathay Pacific Cargo and UPS Airlines in operating the 747-8F, which offers 16% more cargo volume than the 747-400F.

"We are proud of our strong, enduring and growing partnership with Qatar Airways and we truly appreciate the value its business has brought to Boeing, its employees, suppliers and our communities," said Kevin McAllister [right in photos], president and CEO of Boeing Commercial Airplanes. "As one of the world's largest international cargo carriers, it is heartening that Qatar Airways has selected the 747-8 Freighter to meet the needs of its growing cargo operations and to see the important role the 777-300ER continues to play in its long-haul fleet."

The airline already has eight Airbus A330-200Fs and 12 777Fs in its fleet, and has more than 100 Boeing aircraft on order, including 737 MAX 8s, 777-300ERs, 777Fs, 777Xs and 787-9s.

## Panalpina's Air Connection acquisition expands Kenya perishables position

Freight forwarder Panalpina has made another move in its effort to become a market leader for perishables forwarding in Africa with its acquisition of Air Connection, Panalpina announced today. The purchase of Kenya-based Air Connection, a specialized flower and vegetable forwarder, follows Panalpina's acquisition of another Kenyan perishables forwarder, Airflo, which was completed in 2016.

Air Connection's perishables business has operations near Jomo Kenyatta International Airport in Nairobi and in Mombasa, and will be merged with Panalpina Airflo, which will position Panalpina as "a clear market leader in perishables in Kenya," said Panalpina CEO Stefan Karlen, who added that the acquisition "will also allow us to develop our perishables presence in the neighboring countries of Tanzania and Uganda, where we see a lot of potential."



With the approval of the acquisition by the Competition Authority of Kenya, Panalpina Airflo's combined cold-storage capacity will increase to 4,200 square meters as the combined business expects to handle about 70,000 tonnes of perishables airfreight per year, Panalpina said. The company has also begun construction to increase its cold-storage space in a project that should be completed by 2018, according to the statement.





## CARGOLUX TRANSFERS HANDLING AT DUBAI TO EMIRATES

**C**argolux has transferred all of the handling for its freighters at Dubai's Al Maktoum International Airport to Emirates SkyCargo, as part of the two carriers' cargo partnership agreement.

According to Cargolux, its customers now benefit from state-of-the-art infrastructure which will be particularly beneficial for the pharma sector. Emirates' facility, called SkyCentral, offers dedicated temperature-controlled areas, cold storage rooms, cool cells and pharmaceutical storage rooms, enabling Cargolux to provide customers with fast and efficient services with high connectivity. Emirates SkyCargo also operates a specially commissioned fleet of trucks connect DWC to other airports in the UAE.

Both airlines have signed interline agreements that further strengthen the cooperation and give customers a wider range of services and destinations, and the handling cooperation at both hubs allows for the seamless movement of cargo between the two operators.

Cargolux and Emirates SkyCargo signed a strategic operational partnership agreement in May 2017, covering shared capacity, block space and interline agreements, hub connectivity and shared handling. SkyCargo launched a weekly freighter service connecting Dubai and Luxembourg with a Boeing 777F in June 2017, handled by Cargolux's partner Luxair Cargo.



## JETTAINER TO OFFER TEMPERATURE-CONTROLLED ULDs

**J**ettainer has expanded its product portfolio to include the leasing, management, positioning and monitoring of temperature-controlled ULDs. According to Jettainer, the new service is called Cool Management and can be booked in a variety of models with differing scopes.

"We are transferring our long-standing know how of worldwide ULD management to our new Cool Management service in the area of temperature-sensitive transports," said Martin Kraemer, head of marketing and PR at Jettainer. "This way, we are serving our customers' need for an easy, reliable organization of these transports and are simultaneously closing the gap in the management of complete ULD fleets."

The product was launched at the Air Cargo Handling Conference in Budapest.



## CARGO IQ LAUNCHES AIR CARGO INTELLIGENCE HUB

**I**ATA interest group Cargo iQ has launched its Air Cargo Intelligence Hub, an online platform giving members self-service access to real-time data on performance. According to Cargo iQ, the new hub gives members access to data on any given route and produces customized reports, allowing them to compare their own performance against Cargo iQ standards, and that of the Cargo iQ community overall.

"Our members can now analyze their data and see it in an easy to understand, meaningful way; giving them the tools to focus their resources to where they need to improve processes, and supporting them to optimize their products and requirements both for their industry partners and of course, our customers, the shippers," said Ariaen Zimmerman, executive director of Cargo iQ.

"Cargo iQ members are focused on quality in the air cargo industry and our new hub will help demonstrate the value that air freight brings to the global logistics market. Members will be better able to explain to current and potential customers exactly what it is they are paying for, and offer them a choice of products – something new and refreshing for the somewhat traditional air freight sector."

Cargo iQ members work with shared shipment planning based on the master operating plan, which measures each individual cargo journey from shipper to consignee against 16 milestones. Through analysis of the data generated by these measurements, members can work with their customers and suppliers to improve performance, develop new products and drive quality in the air cargo industry.

## Embraer appoints new CCO



**E**mbraer appointed Stephen Friedrich as the Chief Commercial Officer for the Company's executive aviation business unit, effective immediately. Reporting to Michael Amalfitano, President & CEO of Embraer Executive Jets,

Friedrich is responsible for the direct management of the global sales organization for new and pre-flown aircraft as well as the oversight of relationships with customers and industry collaborators.

"Stephen brings a wealth of experience in sales, marketing, finance, customer support and services, and aftermarket programs from over 30 years in the leasing and aerospace sectors," said Amalfitano. "With our strategic shift to focus on value, his dynamic leadership will strengthen our global sales team and challenge us to create more comprehensive solutions for our customers to outperform."

Previously serving as Vice President for Sales and Marketing at Rolls-Royce Civil Aerospace, Friedrich was responsible for leading a global sales team and the marketing activities for business aviation as well as forecasting and pricing of services. Since joining Rolls-Royce in 2001, he also served in the aviation finance group. Prior to Rolls-Royce, Friedrich held leadership roles in banking and aviation finance.

"This is an exciting time to join Embraer Executive Jets as it prioritizes the value of its portfolio," said Friedrich. "Embraer's revolutionary jets have set new standards in comfort, performance and reliability, delivering outstanding value to customers."

## Aeroflot names Mikhail Poluboyarinov Chairman of Board

**A**eroflot board of directors elected Mikhail Poluboyarinov – the first deputy chairman and board member of Vnesheconombank – as chairman, the company said. Since 2011, the board of directors of Aeroflot was headed by the managing director of the Altera investment fund Kirill Androsov, but in the end of June Androsov was not re-elected to the new board of directors. Back then, he noted that the decision not to be re-elected was his personal initiative.

The Board of Directors also decided to submit to the shareholders for consideration the issue of the formation of the fleet of Aeroflot (airline) and Aeroflot Group aircraft, including the terms of the lease deal for 20 new Sukhoi Superjet 100 regional jet aircraft between Aeroflot, VEB- leasing "and Sukhoi Civil Aircraft. The term of the lease is not more than 144 months from the date of transfer of the aircraft to Aeroflot. The date of delivery of aircraft is between August 2017 and July 2018. In addition, it was decided to approve a deal to purchase six new Boeing 777-300ER aircraft from the manufacturer. The date of delivery of the aircraft is between Q2 2018 and Q1 2021.

## Rajiv Bansal appointed Air India's interim CMD

**R**ajiv Bansal has been appointed interim Chairman and Managing Director (CMD) of Air India, India's national carrier, following the resignation of the current CMD Ashwani Lohani.



Rajiv Bansal is currently an additional secretary and financial advisor in India's petroleum ministry. He is being appointed to Air India for three months, until the government makes a final decision on whether Bansal remains in the post permanently, or a new person will be hired. Bansal is replacing the current Chairman and Managing Director of the carrier Ashwani Lohani. Lohani, in turn, is leaving the air carrier to undertake a new role at India's Railway Board, following a fatal derailment on August 19, 2017, which forced his predecessor to resign.

During his 30-year career, Bansal has served in various ministries, including the director's position at the Aviation Ministry. He is a civil engineering graduate from the Indian Institute of Technology and also has a diploma in finance and international business.

## Jet Airways finally appoints new CEO

**J**et Airways have appointed Vinay Dube as the new chief executive officer after waiting two months to receive the necessary government's approvals.



The Indian airline, which at the moment is facing difficulties regarding business decisions and its condition, has been without a constant CEO for more than a year, back when Cramer Ball left the position vacant. Dube will begin the work on August 16 thus replacing Amit Agarwal who currently serves as an acting CEO of the company.

The new CEO is expected to strengthen the airlines business performance in both international and domestic markets as well as work on the carrier's strategy for the future.

Previously, Dube, who is a national of the US, has worked for Delta Airlines, Sabre and American Airlines in the USA, Europe and Asia. As SVP-Asia Pacific for Delta Airlines, his most recent post, new CEO of Jet Airways served as business head with P&L responsibility and was also a board observer at China Eastern.

## Ehad finally appoints a new CEO



**E**tihad Aviation Group has confirmed the appointment of Tony Douglas as Group Chief Executive Officer, who will join the company in January 2018. Douglas joins Etihad from the United Kingdom's Ministry

of Defence, where he has served as CEO of the Defence Equipment and Support department, responsible for procuring and supporting all the equipment and services for the British Armed Forces.

In the UK, he held senior positions with airport operator BAA, and as Chief Operating Officer and Group Chief Executive designate of Laing O'Rourke. His roles under airport operator BAA included Managing Director of the Heathrow Terminal 5 project, Group Supply Chain Director, Group Technical Director, and CEO of Heathrow Airport.

Previously, Mr. Douglas held senior positions in the UAE, most notably as CEO of Abu Dhabi Airports Company and as CEO of Abu Dhabi Ports Company where he was responsible for the successful delivery of Khalifa Port.

"We are delighted to have Tony return to Abu Dhabi to lead Etihad," said Mohamed Mubarak Fadhel Al Mazrouei, Chairman of the Board of Etihad Aviation Group. "He has guided the transformation of large organisations in the UAE and the UK, and he understands the UAE and the region. He is also deeply knowledgeable about commercial aviation and keenly familiar with Etihad's challenges and opportunities in a rapidly changing industry."

"Etihad is a force in global aviation that must continue to adapt and evolve on its own and with industry partners. It is an economic and employment engine for the UAE and the region," said Douglas. "With new infrastructure and attractions like the expanded airport, Louvre Abu Dhabi, and Abu Dhabi Global Market, Etihad has a central role in supporting the UAE's position as a global hub of transportation, tourism, commerce, and culture."

## NOK Airlines CEO resigns

**N**ok Airlines, Thai low-cost carrier, announced the resignation of its Chief Executive Officer Patee Sarasin, effective from September 14, 2017 onwards. Sarasin is being replaced by Piya Yodmani as former Deputy Chief Executive Officer.

Following the resignation from its CEO role, Sarasin will remain the Director of the Company and is appointed as Vice Chairman of the company, Nok airlines announced. After working in advertising and marketing for three decades, Sarasin took up the role of Nok Airlines' CEO in 2004, where he became "the architect of Nok Air's unconventional approach to branding, creating music videos and tongue-in-cheek commercials to engage consumers and build an image of a fun, playful airline", as Southeast Asia Globe puts in.

Nok Air is Thailand's budget airline, positioning itself as a high quality budget airline. The trademark Nok Air ways first established in 2004 under Sky Asia and changed the name to Nok Airlines ('nok' in Thai language means bird) in 2006. According to the 2016 data, Nok Air currently operates a fleet of 23 Boeing 737-800s, eight Q400 NextGens, and two ATR 72-500s. Currently the airline serves routes on 24 domestic and three regional airports.

## SalamAir appoints Captain Mohamed Ahmed as CEO

**S**alamAir, Oman's first low-cost airline, appointed Captain Mohamed Ahmed to Chief Executive Officer. An industry veteran with over 30 years of experience, Captain Mohamed Ahmed joins SalamAir from Air Arabia where he occupied the post of Group Director of Operations & Maintenance. The promotion comes in effect on October 2, 2017.



"It is our pleasure to welcome Captain Mohamed Ahmed to SalamAir," said Eng. Khalid bin Hilal Al Yahmadi, Chairman of SalamAir. "His wealth of knowledge and experience in the industry will play a pivotal role in the Airline's growth and development journey."

"I have been following SalamAir's progress from the very start and am proud to be joining and working alongside the team to make SalamAir the traveling partner of choice for guests flying between our ever-expanding destinations," said Captain Mohamed Ahmed. "The success of a budget airline business model is centered on offering safe and affordable flights which represents a great value for money. I plan to build a winning team and apply my experience and know-how to write the next chapter of SalamAir's success story."

Launched in 2016, SalamAir is Oman's first budget airline. Initiated by ASAAS, a national investment and development company, SalamAir has been formed to meet Oman's rapidly increasing demand for air traffic at affordable prices. Operating a fleet of A320s, the airline's flight schedule includes flights to Salalah, Suhar, Jeddah, Dubai, Sialkot and Karachi.



## Boeing names Musser VP Communications



**B**oeing named Phil Musser as the company's next senior vice president of communications, succeeding Tom Downey, who has announced plans to step down from the role late this month and retire from the company early next year.

Musser, 45, has more than 20 years of strategic communications and public relations experience, including 10 years as a consultant to Boeing. He is the chairman and chief executive officer of IMGE, an Alexandria, Virginia-based digital communications firm he co-founded in 2013. He will

join Boeing Sept. 25, reporting to Chairman, President and CEO Dennis Muilenburg and will move into Downey's place on the company's executive council. He will be based in Chicago.

"Phil is a seasoned and highly respected executive who knows Boeing well and brings to us an exceptionally broad and relevant set of communications experiences, capabilities and insights," said Muilenburg. "He is a creative, strategic and energetic leader who understands the scale of our brand and how to inspire confidence and support among our many important stakeholders. He also has a passion for engaging our people, shaping culture and investing in talent for the future. He is the right choice to lead our world-class communications team into Boeing's second century," Muilenburg added. Prior to his role as the co-founder of IMGE, Musser was the executive director of the Republican Governor's Association and a senior vice president of Dutko Worldwide, a leading bi-partisan public policy management firm. He also served as deputy chief of staff and senior policy advisor of the U.S. Department of Housing and Urban Development during the second Bush Administration and was a deputy director of the 2004 G-8 Summit in Sea Island, Ga., for the U.S. Department of State. He holds a bachelor's degree from Kenyon College.

## Air New Zealand appoints new CFO

**T**he board of Air New Zealand, New Zealand's flag carrier, appointed Jeff McDowall, currently serving as corporate finance general manager for the airline to become the new Chief Financial Officer from January 1, 2018. McDowall is replacing the current CFO Rob McDonald.

McDowall has been working for Air New Zealand since July 2000 and since February 2017 served as Group General Manager Corporate Finance. Prior joining the airline McDowall worked as a principal consultant for PricewaterhouseCoopers. He holds Bachelor of Commerce degree from Victoria University of Wellington.

The current Air New Zealand's CFO Rob McDonald began working for the airline as Group Financial Planning Manager in 1993 and was appointed as Chief Financial Officer of Air New Zealand in October 2004. McDonald has a Bachelor of Commerce from Auckland University and in 1999 completed the Program of Management Development at Harvard Business School. He is a Fellow of Chartered Accountants Australia and New Zealand, a member of the Institute of Finance Professionals New Zealand and from 2006 to 2015 was a member of the IATA Financial Committee, appointed as Vice Chairman from 2013 to 2015.

## Boeing names Maurita Sutedja as Investor Relations Leader

**B**oeing named Maurita Sutedja, a veteran Finance leader, as its next vice president of Investor Relations. She will succeed Troy Lahr, who has been appointed chief financial officer of Boeing's Autonomous Systems business. Sutedja will oversee Boeing's interactions with the investment community, providing shareholders and industry analysts an accurate picture of the company's business, performance, and outlook.

Since joining Boeing in 2010, Sutedja has held leadership roles in the company's treasury, financing and enterprise services groups, including serving as chief financial officer of Boeing Capital Corporation and vice president of Enterprise Finance Services. Prior to Boeing, Sutedja worked at General Motors for nearly a decade, holding various leadership roles such as director of global funding and cash management. Sutedja began her career as an equity research analyst at UBS and ABN AMRO Securities.

Sutedja will report to Greg Smith, Boeing's chief financial officer and executive vice president of Enterprise Performance & Strategy.

"Maurita is a proven business leader with a keen understanding of Boeing's operations, along with a broad and global perspective gained from various roles in the finance world," said Smith. "She has the necessary experience and insight to help our financial stakeholders understand our performance and prospects, and will build on Troy's tremendous work over the past four years."

Lahr, who has led Boeing's investor relations team since January 2013, will move to Autonomous Systems, a key segment of the company's Defense, Space & Security unit that provides high-performance unmanned aircraft systems, underwater maritime vehicles, and certain electronic and information systems. Lahr will also join the board of United Launch Alliance, a joint venture between Boeing and Lockheed Martin.

These appointments are effective September 22. Sutedja and Lahr will work together over the next few months to ensure a smooth transition.

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Dress code: Male Candidates: Western formals with a tie.

Female candidates - Formal blouse or shirt with a knee length skirt.



**JET AIRWAYS** 

City	Interview Date	Time (Hrs)	Venue
Amritsar	Oct 6, 2017	1100 hrs to 1400 hrs	Holiday Inn Amritsar, District Shopping Complex, Ranjit A, Amritsar.
Jaipur	Oct 6, 2017	0900 hrs to 1300 hrs	Hotel Royal Orchid, Tonk Road, Durgapura, Jaipur.
Pune	Oct 6, 2017	1000 hrs to 1400 hrs	Novotel, Pune Nagar Road, Weikfield IT Infopark, Survey No. 30/3, Ramwadi, Viman Nagar Pune.
Mumbai	Oct 7, 2017	1000 hrs to 1400 hrs	Kaledonia (HDIL Building), 4th Floor, Off Western Express Highway, Sahar Road, Andheri East, Near Andheri East Railway Station, Mumbai.
Delhi	Oct 9, 2017	1000 hrs to 1400 hrs	Constitution Club of India, Rafi Marg, New Delhi.
Bhopal	Oct 10, 2017	0900 hrs to 1300 hrs	Hotel R K Regency, Sawan Nagar, Main Road, Halalpur, Lalghati, Bhopal.
Chandigarh	Oct 11, 2017	0900 hrs to 1300 hrs	The Golden Plaza Hotel, Paras Downtown Square Zirakpur, Chandigarh.
Dehradun	Oct 12, 2017	0900 hrs to 1300 hrs	Institute of Hotel Management Dehradun, Near ONGC helipad, Garhi Cantt Dehradun.
Kolkata	Oct 12, 2017	1000 hrs to 1400 hrs	The Circle Club, Crossing of VIP Road, Rajarhat, New Town Express Way, Opp. Charnock Hospital, Kolkata Airport, Kolkata.
Kochi	Oct 13, 2017	0900 hrs to 1200 hrs	Flora Airport Hotel, Opp International Terminal Kochi Airport, Nayathodu P. O. Kochi.
Hyderabad	Oct 13, 2017	1000 hrs to 1400 hrs	Hotel Tabla Pride, Next To Care Hospital, Road Number 1, Banjara Hills, Hyderabad.
Bengaluru	Oct 14, 2017	1000 hrs to 1400 hrs	Amity Global Business School, 372, St. John's Hospital Road, 3rd Block, Kormangala, Bengaluru.
Delhi	Oct 24, 2017	1000 hrs to 1400 hrs	Constitution Club of India, Rafi Marg, New Delhi.
Siliguri	Oct 25, 2017	1030 hrs to 1400 hrs	Club Montana Vista, By Conclave E Zone, Uttarayan, New Township, Matigara, NH 31. Siliguri.
Mumbai	Oct 28, 2017	1000 hrs to 1400 hrs	Kaledonia (HDIL Building), 4th Floor, Off Western Express Highway, Sahar Road, Andheri East, Near Andheri East Railway Station, Mumbai.

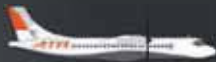
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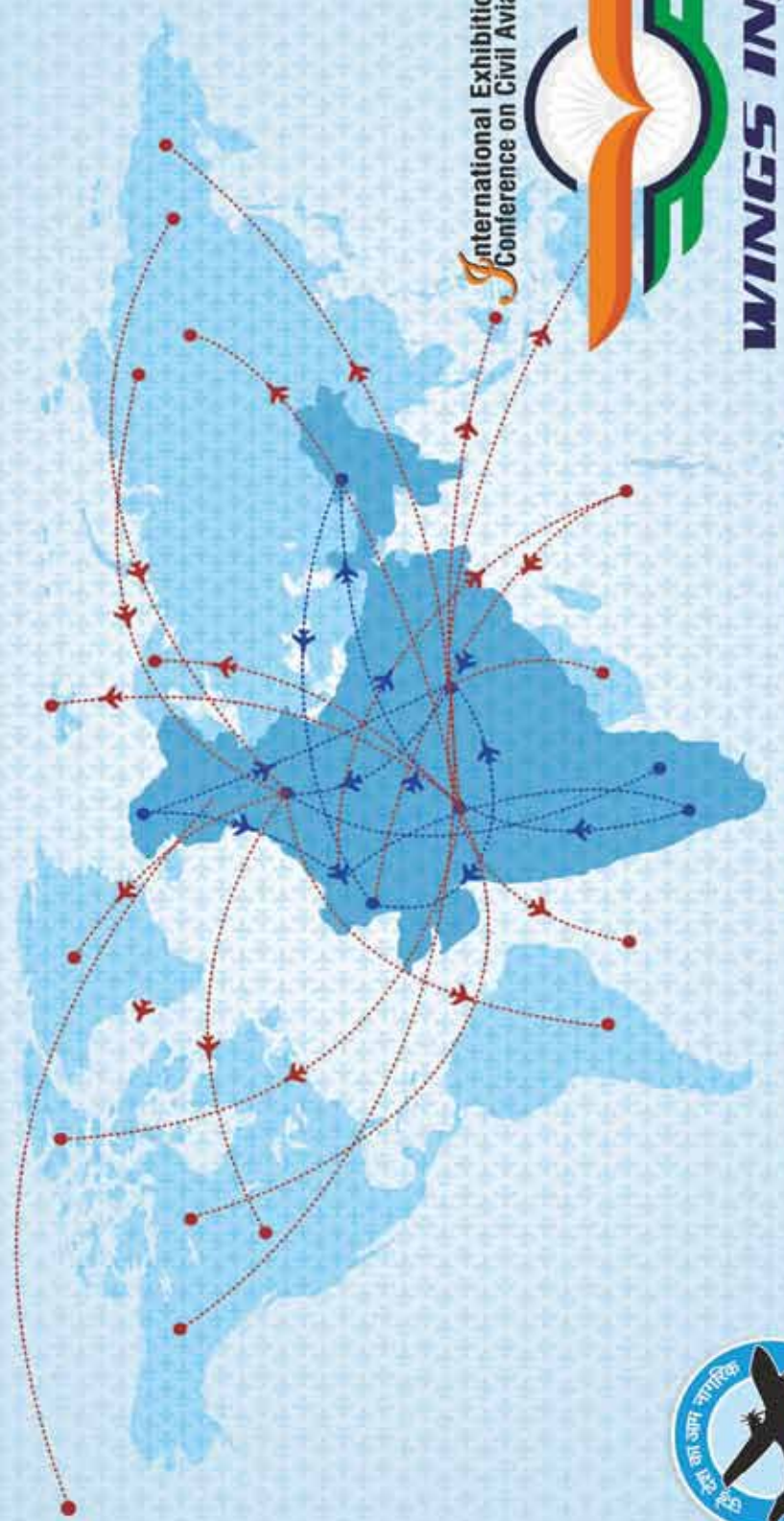
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