

# air cargo update

Vol. 9 Issue 07, No. 77, July 2019

The first and only PAN-Regional Magazine  
Middle East - Africa - Asia and beyond



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### Nature's friend

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CEO, Cargolux Airlines



The Lounge



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## EDITORIAL



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Middle East, Africa, Asia & beyond

Air Cargo Update serves as a platform to share news and discuss critical issues within the Air Cargo Industry from the Middle East, South Asia and African region.

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# Editor's Note

## Ethics and cargo

The line between ethics and cargo used to be blurred in pursuit of good money. Countless high value items—stolen antiques, endangered species, weapons, among other illegal items—have made it between countries in the past via planes without questions from authorities.

The practice still exists clandestinely especially in terms of illegal poaching with international bodies pointing out the crime valued at about USD20 billion annually.

The difference is that these days the ethical transportation of goods, especially that of wildlife and endangered species, are given due importance.

In this edition, we look at Cargolux Airlines, which like other major global cargo carriers, have made a pledge to protect animal rights by refusing the so-called hunting trophies. A true friend of nature, the company made history last month when it successfully transported two captured whales from Shanghai, China to Iceland where the world's first sanctuary for whales and dolphins is located.

We'll also share insights on the global logistics industry's future from experts who were surveyed ahead of the transport logistics exhibition and that of Air Cargo Europe.

On The Lounge, we'll share the story of a busy Omani cargo executive who takes pride in being part of the Sultanate of Oman's growing aviation and freight sectors who despite his busy schedule still finds time to bond with his family.

On airports, we will bring you how an unexploded ordnance from World War II disrupted flights in Frankfurt and forced the evacuation of thousands of residents; the technovation concept that Hong Kong explores for its new city within the airport; Turkey's new book chronicling the 42-month journey of the world's biggest airport, Istanbul Airport, and; Heathrow's massive expansion plans.

These and more in this edition of Air Cargo Update.

**Gemma Q. Casas**  
Editor-in-Chief



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The  
LOUNGE

## Finding time to connect with family in the midst of a busy life in the air cargo industry

Mohammed Ali Al Musafir, Senior Vice President - Oman Air Cargo at Oman Air, has a lot on his plate as the airline aggressively competes in the cut-throat air freight industry, pursuing growth and new business opportunities.

His job requires constant travel across the globe, good leadership and business acumen, mentoring staff, precision and making the right decisions within the company, working with about 75 interline partners and responsible for moving goods across the globe for individuals and businesses that trust in Oman Air Cargo's reliable and efficient air freight services.

Oman Air, the national carrier of the Sultanate of Oman, is a vital lifeline in growing Oman's economy with each new destination launched ushering new opportunities for trade, business, and tourism prospects for Omanis.

"It feels great," shared Al Musafir with **Air Cargo Update** when asked how it feels to see the airline which he has been serving since 1996 make leaps and bounds in such a short time in the global aviation industry.

"We started with domestic flights. Then flights to Dubai and India were launched. Now we're flying almost everywhere. It's a success story. It connects Oman to the world. We are hoping that the airline will grow further and fly to more destinations. Aside from being one of the major stakeholders in supporting the Sultanate of Oman's National Air Cargo strategy, we are fully dedicated to work towards the development and growth of Oman's Air Cargo business by supporting local exports which include



**Mohammed Ali Al Musafir**  
Senior Vice President, Oman Air Cargo

the fisheries and agriculture sectors," he added.

In 2016, Al Musafir, who previously held other senior management roles in the airline, took the responsibility of leading Oman Air Cargo and had since been instrumental in turning around its business to a strong and sustainable one.

In 2017, Oman Air Cargo posted 38 percent growth in sales and cargo volumes, followed by 17 percent in 2018. There is optimism in getting good numbers in 2019 with Q1 2019 showing 16 percent year-on-year growth despite the many challenges the industry faces.

In the midst of his daunting tasks and responsibilities, this devout father of six—four adults and two teenage kids, still finds time for family and personal hobbies whenever he can.

On weekends, he prefers to spend his time with his family enjoying the sun, sand and the sea dotting Oman's beautiful coastlines.

"I don't have so much free time to be honest. I spend my weekend with the family. We go for picnic and enjoy the sea. Oman is a beautiful country with beautiful beaches. And whenever we have an opportunity, we go out as a family," shared Al Musafir who is highly regarded in the business for his hard work and innovative business solutions.

Busy as he seems, Al Musafir also finds time to read, reflect on each day's events and update himself on the latest developments in the volatile and dynamic air cargo industry.





## GLOBAL NEWS

## Saudia Cargo draws strength with SkyTeam Cargo alliance at Air Cargo Europe 2019



Saudia Cargo CEO Omar Talal Hariri, left, gets well wishes from another cargo executive.

**MUNICH, GERMANY:** Saudia Cargo continues to draw strength from its SkyTeam Cargo alliance, opting to participate for the first time as part of the group instead of having its own stand at the recently held Air Cargo Europe 2019.

At the June 5 welcome banquet reception that SkyTeam Cargo hosted at its stand, Saudia Cargo was formally introduced as the newest member of the world's largest alliance of freight carriers comprised of 12 major airlines.

Air Cargo Europe is the largest trade fair on logistics and air freight, held from June 4-7, 2019. This year the biennial event drew about 2,374 exhibitors from more than 63 countries, up by 10 percent than in 2017.

"We're delighted to participate for the first time at Air Cargo Europe as part of a global alliance of cargo

carriers, the SkyTeam Cargo. We believe that joining the team will further enhance our services to our loyal customers whilst promoting collaboration and solidarity in addressing pressing issues in the industry," Omar Hariri, CEO of Saudia Cargo, commented during the event.

Saudia Cargo (Saudia Airlines Cargo Company) has been in the air freight industry since 1945. It formally became the 12th member of SkyTeam Cargo on April 15, 2019.

As SkyTeam Cargo member, Saudia Cargo significantly expanded its global network with the group having access collectively to more than 900 destinations in more than 175 countries.

"Saudia Cargo continues to explore ways that will improve its capacity, services and resources. The changing dynamics in the air freight industry calls for greater collaboration with



other major players to optimize opportunities and resources. This is a partnership so in return we pledge to help the SkyTeam Cargo members expand their operations in the Middle East and elsewhere," the Saudia Cargo CEO said highlighting that Saudi Arabia Government envisions to turn the Kingdom into a global logistics and freight hub under the Saudi Vision 2030 initiative.

This mandate means investing heavily on infrastructure, new technologies and people as well as forging global industry alliances.



## Air France KLM Martinair Cargo gets 'FlowerWatch' accreditation

**SCHIPHOL:** Air France KLM Martinair Cargo (AFKLMP Cargo) became the first airline granted The Netherlands' "FlowerWatch" accreditation—a proof of quality and standardization that all fresh flowers it ships from Nairobi to Schiphol Airport are in good condition.



**Eric Mauroux, Air France KLM Martinair Cargo's Global Head of Perishables Logistics**

The Netherlands gave the airline the accreditation at the recently held International Flower Trade Expo (IFTEx) in Nairobi, Kenya. The accreditation is part of the global floriculture industry's efforts for further improvements on the shipments of fresh flowers.

Cold-chain management has emerged in recent years as a vital success factor in the post-harvest life of fresh flowers. Temperature exposure during storage and transportation contributes to discoloring, wilting, poor flower opening, and premature ageing. The end result is reduced vase life, often by several days.

FlowerWatch has developed a fail-safe Quality Assurance system based on 'time temperature exposure' expressed in degree hours. Simply put this is the average temperature of your fresh flowers throughout transportation multiplied by the number of hours (1 degree hour = 1 hour x 1 degree Celsius). Every 500 degree hours reduces vase life by one day. The key to successful cold chain performance is to minimize the number of degree hours.

"Like the pharmaceuticals sector, where steps have been taken to comply with manufacturers requirements, we recognise the necessity for the floriculture sector of moving towards a more efficient cool chain based on the key drivers of effective collaboration, innovation and data-sharing in order to comply with growers', importers' and retailers' requirements," explained Eric Mauroux, Air France KLM Martinair Cargo's Global Head of Perishables Logistics.

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## Turkish Cargo includes Khimki, the city of science of Russia, to its flight network

**ISTANBUL:** Turkish Cargo has added Khimki (SVO-Sheremetyevo Airport), also known as the city of science of Russia, to its expanding direct flight cargo network, the company announced.

Turkey's national freight carrier said it stands to carry many export products especially automotive accessories and oil raw materials originating from Russia, as well as a variety of imports from Turkey such as textile products, electronics and vegetables and fruits to be sent to Russia.

Located just 30-km from Moscow, Khimki has a close commercial relationship with the capital and encompasses the largest shopping malls of the country.

"Our flights to Khimki with an exports and imports marketplace for Turkey, the USA and Europe especially the Far East will be performed by means of A330-200F freighters on



Wednesdays on Istanbul (ISL) - Khimki (SVO) line as of June 12," said Turkish Cargo.

Reaching 124 countries, with extensive flight network covering 88 direct cargo flight destinations and

more than 300 destinations, Turkish Cargo has remarkably sustained growth and continues to undertake major changes at its new hub to reach its goal of becoming one of the top 5 cargo brands worldwide.

## RSA Global launches e-Commerce solutions to serve emerging markets in the Middle East and Africa

**DUBAI:** RSA Global says it has launched a fulfilment solution capable of processing up to 10,000 consignments per day, catering to digital sellers and e-commerce platforms eyeing the high potential markets of the Middle East and African continent.

RSA, a leading supply-chain provider based in Dubai, said its significant investments in technology and infrastructure addresses the diverse challenges of these emerging markets.

It promises a sophisticated solution to elevate the customer experience in the following areas: First mile: Digital operations that ensure complete visibility from the start; Linehaul: Partner air fleet to provide consistent efficiency in transit time; Customs clearance: Top performing agents powered with blockchain & AI technology; Final mile: Mobile platform to handle last minute changes to delivery and to optimize route planning, and; Integration options: Multiple options to integrate via various technologies e.g. EDI or APIs

RSA said it is leveraging its exclusive and extensive network to guarantee a robust and integrated fulfilment solution, with traceability at every step. The company is also designing multimodal shipping options to optimise cost and efficiency for clients with varying demands.

"This is a culmination of all the services and products we have been building over the years to now serve who we believe will be the



consumer of the future. With our strategic focus and investments in technology, we look forward to enabling consumers in the Middle East and Africa to gain greater access to the world," said Abhishek Ajay Shah, Group CEO and Co-Founder of RSA Global which was established in 2009.





## GLOBAL NEWS

## ECS Group makes waves in Munich with the #NexGenLeaders challenge



ECS Group's #NextGenLeaders Challenge proved to be a success with the winners creating technovation solutions for the industry. Supplied Photo

**MUNICH:** ECS Group made waves during the four-day Air Cargo Europe as it introduced the freight community to its #NexGenLeaders challenge that culminated with the recognition of winners from across the globe after six months of intense competition.

Startups, group employees and students were among 1000 participants and from a huge range of backgrounds who worked for months to build the future of the industry.

During the prestigious gala dinner, industry stalwarts had the opportunity to discover the talent of the future, and were completely won over by the innovative nature of the #NexGenLeaders project.

ECS Group welcomed the enthusiastic response of key industry stakeholders saying the project wouldn't have been possible without the unfailing support of the Grand Jury—E. Wilson (Delta Air Lines), G. Halleux (Qatar Airways), C. Garcia (IAG Cargo), L. Kuehner (Panalpina), S. Polmans (Brussels Airport Company), S. Scholte (TIACA), N. Bamford (Azura international), A. G. Diener-Veinott (Accenture), V. Marchand (WFS), I. Raj (DHL express).

The 10 #NexGenLeaders teams present at the Air Cargo Europe trade show had the privilege of discovering the air freight industry from the inside and attending a truly memorable evening, including the announcement of the three winners.

Some of the 10 finalists have already distinguished themselves even if they didn't win: one such example is "Each % Counts" – a team of students with a project designed to use the empty space in cargo planes to send

humanitarian supplies, implementing a new CSR impact. This project could be put into practice in the near future, supported by a major institution.

This year's #NextGenLeaders winners are the following:

In the "ECS Group Employees" category, the winner is "Cargo Assistant" represented by Jonatan Jiménez. The group's idea is a voice and virtual assistant tool (like Alexa/Google Home) that performs a range of tasks. The main objective of Cargo Assistant is to improve the information exchange process and also provide a unique and exclusive service to customers. A prototype of this tool already exists and will be developed internally for ECS Group's customers.

In the "Students" category, "Augmented by DCK" represented by Rutger Smulders won. Their solution: Use augmented reality in freight handling to improve and assist the freight acceptance process during freight handling and during pallet building. By looking through augmented reality glasses, the computer generates information to help make warehouse employees' jobs easier and improve their efficiency.

In the "Startups" category, "Clive - The Selfie App" represented by Niall van de Wouw, co-founder of the startup, emerged as the winner. Their solution: Every Wednesday, the Selfie App provides cargo airlines with detailed load factor analyses for the previous week. These timely analyses are based on flights' freight volume and weight. The service was launched on May 29.

## American Airlines adds seasonal widebody service to Munich and Berlin

**Dallas/Fort Worth, TX:** American Airlines has added new destinations to its international network with additional widebody service to Germany for summer 2019.

New routes include Dallas/Fort Worth (DFW) to Munich, Germany (MUC) on a Boeing 787-800, began on June 6. This seasonal route gives American a second widebody flight to Munich in addition to year-round Airbus A330-200 service to Munich from Charlotte (CLT) that launched in March.

The Munich area is home to leading automotive manufacturers and their suppliers and it also has a widespread IT equipment production industry where customers have already expressed considerable interest in the new wide body service.

The second new route from the U.S. to Germany is Philadelphia (PHL) to Berlin, Germany (TXL) on the Boeing 767-300, with service starting on June 7. Berlin is a hub for machinery, pharmaceuticals, electronics, and fruit logistics.

"I'm excited about these new opportunities," said Tim Isik, American's Director, Cargo Sales – Europe, Middle East and Africa. "I'm proud to say that American Airlines has the largest network in the world, but we're continuing to expand into new cities. These new routes further grow our presence in Europe and most importantly, give our customers more opportunities to connect their goods around the world."

## AirBridgeCargo expands passive pharma solutions with SkyCell as partner



**MOSCOW:** AirBridgeCargo Airlines (ABC) is expanding its passive pharma solutions capabilities with a partnership agreement with the Zurich-based cold chain ULD manufacturer SkyCell.

ABC said the company hauled about 3,500 tons of passive pharmaceutical products in Q1 2019 and the demand keeps on increasing, thus, it forged a partnership agreement with SkyCell to ensure the shipments are protected.

ABC said SkyCell's line of passive containers is capable of keeping the internal temperature within the range of +2° to +8°C and +15°C to +25°C under external temperature excursions from -35°C to +65°C, meeting the requirements of various pharmaceutical manufacturers, as well as logistics companies involved in a complex transportation process.

"With SkyCell containers we have increased the total number of cold-chain special packaging solutions partners till three, aiming at embracing all leading manufacturers

to cater to the needs of different customers. SkyCell data-collection enablement supports our intention to move further with 'Internet of Things' penetration into the industry and step aside from peer-to-peer data sharing to information transparency and availability. On top of this, it fosters an extra piece of mind for our customers to have real-time data in one click," –stated Fedor Novikov, Deputy General Director, Products, AirBridgeCargo Airlines.

Richard Ettl, CEO of SkyCell, added: "ABC has one of the most modern airline fleets and, like SkyCell, is committed to greater transparency in the industry. Together we strive to make pharmaceutical logistics safer, more reliable and more sustainable."

AirBridgeCargo has adopted a thorough & well-balanced approach towards development of its dedicated 'abc pharma' product, reinforcing its team of experts, expanding its pool of special packaging manufacturers, adopting the latest digital solutions, but most importantly, deepening its field-specific knowledge & sharing it with customers & partners through educational workshops & aircraft tours.



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## GLOBAL NEWS

## CHAMP Cargosystems launches CHAMP Academy

**LUXEMBOURG:** CHAMP Cargosystems has launched CHAMP Academy, a catalog of courses to help customers and likewise their customers learn how to use CHAMP solutions - all delivered through the company's state-of-the-art e-learning platform.

CHAMP described the Academy as an innovative approach in developing specialized courses that are fun and flexible for different types of learning styles.

The company says CHAMP Academy offers easy to access interactive e-learning modules for navigating through its certification and retraining courses. And to increase knowledge retention rate

and keep learners engaged, the designed e-learning modules are short, and role-based. Neuroscience and gamification techniques make the user's experience more effective and entertaining, while going through responsive content such as videos, simulations, and quizzes.

"The CHAMP Academy is the product of advanced learning techniques via gamification, video, and other interactive means," said Nicholas Xenocostas, VP of Commercial & Customer Engagement at CHAMP Cargosystems. "CHAMP is thrilled to offer this service to help its customers - and likewise their customers - maximize the benefits



of using CHAMP's powerful solutions."

CHAMP Academy offers product (re-) training and certification in the form of blended learning, which is a combination of e-learning and flipped classroom sessions. Course content is mobile responsive and can be delivered on any device.

The CHAMP Academy is currently offered to users of Traxon Global Customs and Traxon Global Security solutions. It will be soon offered across the wider CHAMP customer base.

## Jettainer and WestJet Airlines extend partnership deal



**FRANKFURT:** Canada's second largest airline WestJet and Jettainer announced they are continuing their long-term partnership for another five years with their contract renewed prematurely two years before expiration.

Jettainer, the leading international service partner for outsourced ULD management will,

thus, continue to manage and maintain WestJet's ULD fleet over the next five years.

Since the start of the partnership in 2015, WestJet has been on a growth course. The number of containers and pallets to be controlled has increased from around 350 to currently 2,000 units.

WestJet currently operates 120

Boeing 737 aircraft and four Boeing 767-300. In addition, the airline took delivery of the first of ten newly ordered Boeing 787-9 Dreamliners in January of this year.

"We are very pleased with WestJet's confidence in our services. The premature extension of the contract explicitly expresses this and is an incentive for us to continue to convince through our best service in the future," said Carsten Hernig, Managing Director of Jettainer GmbH.

"The early renewal of our contract is proof of the good partnership we have enjoyed with Jettainer over the past four years. We see the ULD specialist as an ideal partner to continue our growth course," Heidi Macenzie, Director Cargo at WestJet Airlines, emphasized.

Jettainer GmbH is a wholly-owned subsidiary of Lufthansa Cargo AG, managing approximately 90,000 units – so-called Unit Load Devices – for 22 airlines.



## Volga-Dnepr Technics Moscow begins MRO for Boeing 737NG at Krasnoyarsk Airport

**MOSCOW:** The Bermuda Civil Aviation Authority (BCAA) has granted Volga-Dnepr Technics Moscow, provider of maintenance, repair and overhaul (MRO) services for foreign-made aircraft in Russia, the contract for Boeing 737NG maintenance at Krasnoyarsk Airport.

Due to the expansion of the BCAA certificate VDTM engineering personnel may perform line maintenance & troubleshoot the specified aircraft at the line maintenance station (LMS) in Krasnoyarsk, a city that is also one of the destination network points for air freight carriers belonging to Volga-Dnepr Group, AirBridgeCargo & ATRAN, the company announced.

"The decision to obtain BCAA approval for the Boeing 737NG maintenance was primarily due to the intention to support our regular customer, ATRAN freight carrier which has quite recently begun to



operate its new type of aircraft on route to Krasnoyarsk. We are proud that we have successfully gained certification in a short time and expanded the range of aircraft maintained at LMS in Krasnoyarsk by adding the Boeing 737NG to the existing Boeing 737CL, Boeing 747-400 and Boeing 747-8," said Konstantin Surkov, CEO of Volga-Dnepr Technics Moscow.

VDTM says it plans to engage new customers to maintain the Boeing 737NG in Krasnoyarsk, which will be possible thanks to the high quality of the services provided, the popularity of this type of aircraft among other Russian airlines and the progress of the Krasnoyarsk Airport, which increased passenger traffic by more than 12% in 2018 and the volume of cargo handled by 46%.

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# 8th Caspian Air Cargo Summit 2019

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Focus will be on unlocking the potential of the Silk Road Initiative for airlines, airports and the air freight industry in general. Other session themes will cover innovation in logistics, e-commerce, perishables and global market outlook.

## **PROGRAM** *Highlights*

- **Global Market Outlook – Challenges and Opportunities**
- **One Belt – One Road**
- **Airports Role for the Silk Road Initiative**
- **E-Commerce – What's Next?**
- **Latest Trends in Perishables Logistics**
- **Innovation in Logistics & Supply Chain**

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## Virgin Atlantic becomes the first UK airline to order the A330-900neo



**LONDON:** Virgin Atlantic has become the first UK airline to announce a firm order for 14 Airbus A330-900neos, with an additional six as options, reaffirming its commitment to flying the cleanest, greenest fleet in the sky.

The new planes are designed to be 13 percent more fuel and carbon efficient than the A330-300 they replaced and will deliver a 50 percent reduction in airport noise contour. Over a 10-year period, 2014-2024, the fuel efficiency of Virgin Atlantic's fleet will have improved by 32 percent, the company said.

The order, valued at \$4.1 billion, is a

crucial step in Virgin Atlantic's fleet transformation program which will see 100 percent of the airline's planes replaced over a 10-year period, creating one of the youngest fleets in the skies with an average age of just 5.3 years.

Of the firm order, eight will be purchased and six leased, as Virgin Atlantic continues its investment into increasing the proportion of owned aircraft in its fleet.

"We expect the A330-900neos to be another fantastic aircraft for cargo and will support our projected growth in the years ahead. This also includes our new contract for Accenture's

latest AFLS 8.0 cargo management platform to enable customers to interact with us digitally, the opening of our new state-of-the-art cargo facility dnata City East at Heathrow in September and the arrival of the airline's first Airbus A350-1000's this summer," said Dominic Kennedy, Managing Director of Virgin Atlantic Cargo.

The aircraft will operate on both business and leisure routes for the airline worldwide with bases at London Heathrow, London Gatwick & Manchester Airports.

"2019 marks a return to growth for Virgin Atlantic as we strive to become the most loved travel company and the nation's second flag carrier at an expanded Heathrow. A fundamental part of our strategy is collaboration with partners and our announcement today with Airbus and Rolls Royce, following the launch of our A350-1000 this summer, takes our partnership to the next level," said Shai Weiss, CEO of Virgin Atlantic.

## TAPA EMEA calls on industry collaboration to tackle violent cargo thefts in South Africa

**LONDON:** Greater industry collaboration is needed to tackle the threat of violent cargo crimes in South Africa, according to the new President and CEO of Transported Asset Protection Association (TAPA) Europe, Middle East & Africa (EMEA) Thorsten Neumann.

The world's leading security expert network for everyone in the supply chain is calling on businesses across the country to share intelligence on cargo thefts and criminal attacks on facilities and trucks, and promoting the use of its industry-leading Security Standards to increase the resilience of manufacturing and logistics operations as well as to protect employees.

"South Africa is like so many other countries in EMEA in respect of the

significant under-reporting of cargo crimes but the intelligence we do have provides a very clear understanding of the modus operandi used by criminals to steal products from facilities, parked trucks and while vehicles are en route," said Neumann.

"The direct and indirect losses from these attacks can be hundreds of thousands of euros per incident, not to mention threats to the safety of employees. In May, one truck driver was killed when his vehicle was forced off the road in Western Cape in a crime which saw the offenders steal a shipment of clothing and footwear products valued at more than €156,000," he added.

The Association's 2019 South Africa Regional Conference in Gauteng province on 26 July will include

presentations by logistics, secure parking, risk solutions, technology and legal experts.

Neumann said cargo crime in South Africa is nothing new but a lot could be done to address this problem through the use of technology and collaboration from stakeholders.

"Collaboration between like-minded security professionals is our greatest asset in staying one step ahead of organised criminals who see supply chains as easy, low risk targets. TAPA is ready to engage with, and support, any companies that need our help in South Africa, as we are across EMEA, whether they are a manufacturer or a provider of any mode of freight transport or logistics services," the TAPA-EMEA President and CEO pointed out.





## LOGISTICS NEWS

## Khalifa Port welcomes Capesize vessel for the first time



**ABU DHABI:** A Capesize vessel, the world's largest dry cargo ship, successfully docked recently at Khalifa Port in Abu Dhabi, launching Emirates Global Aluminium's (EGA) import of bauxite at its new Al Taweelah refinery using bulk cargo vessels.

EGA which imports bauxite ore from the Republic of Guinea to supply its Al Taweelah alumina refinery said using Capesize vessels reduces shipping costs per ton.

Abu Dhabi Ports said it has modified the approaches to Khalifa Port to accommodate Capesize vessels bound for EGA, making it the first port in the Gulf able to accommodate these fully-loaded ships. The approaches have been deepened from 16.5-m to 18.5-m draft and widened from 250-m to 280 m, the UAE state news agency reported.

With a draft of 18.2 meters fully-laden, Capesize vessels are amongst the largest bulk cargo ships in the world. At other ports, this type of vessels must be partially unloaded offshore before they can dock at the port safely.

Abu Dhabi Ports said the enhanced capability of Khalifa Port enables new trade opportunities, supporting other local industries and boosting Abu Dhabi as a regional maritime hub. The

world's largest container ship MV Solar berthed at Khalifa Port for the first time in recent weeks.

Capesize vessels are up to 300 meters long – more than the length of two football fields – and 50 meters wide. They can carry around 180,000 tons of bauxite ore.

"The arrival of Cape Taweelah is a landmark moment for EGA, but these huge ships will become a familiar sight at Khalifa Port over the years ahead. We are glad Abu Dhabi Ports addressed our need to bring Capesize vessels to our quay and decided to further develop the capabilities of Khalifa Port, also benefitting trade in Abu Dhabi and the UAE more broadly," said Abdulla Kalban, Managing Director and CEO of EGA.

Capt. Mohamed Juma Al Shamisi, CEO of Abu Dhabi Ports, noted: "Welcoming this Capesize ship at EGA marks another first for Abu Dhabi's maritime and trade industry, and demonstrates our commitment to ongoing innovation and expansion in response to market and tenant demands. Our investment in deepening and widening the channel has created better business opportunities for all partners, including CSP Abu Dhabi, which recently received one of the largest container vessels at Khalifa Port with a capacity of 21,000 twenty-foot equivalent unit."

## India & UAE's JV acquires 76% of Kribhco

**DUBAI:** The joint venture firm between Dubai and India have acquired a 76 percent stake at Kribhco Infrastructure Limited, an integrated multimodal logistics operator in India.

Hindustan Infralog Private Limited, HIPL, a joint venture between DP World and the National Investment and Infrastructure Fund in India, said the acquisition was made through its 90 percent owned subsidiary, Continental Warehousing Corporation (Nhava Seva) Limited.

Kribhco will continue to retain the remaining 24 percent shareholding, reported the UAE state news agency WAM.

Founded in 2009, Kribhco operates three major Inland Container Depots/Private Freight Terminals in three Indian states and has container train operations with a pan India outreach. It has a strong presence in the National Capital Region, which is India's largest import/export market with a population of over 46 million, including a terminal located on a notified double stack route.

With the acquisition of Kribhco, HIPL will emerge as one of the leading integrated rail terminal and Container Train Operators in India with an enhanced network to provide door-to-door connectivity to cargo owners. It will also augment DP World's existing business in terms of the business model and geographic footprint, offering an integrated portfolio to the entire logistics value chain.

## CEVA Logistics and CMA CGM launch container depot between Thailand and Laos



**BANGKOK:** A container depot between Thailand and Laos launched by CEVA Logistics and CMA CGM is seen to help shippers save costs, time and resources.

The companies have combined their expertise and service capabilities in Thailand and Laos by combining ocean freight and cross-border trucking service, enabling importers to drop off their empty containers at a newly expanded CMA CGM container depot, operated by CEVA, outside the Laos capital, Vientiane.

The new cross-border service provides imaginative solutions for both import and export customers and helps them reduce their carbon footprint as empty containers no

longer have to be returned to their origin.

This means there is no need for an empty return leg where equipment

would be previously unused and would have been sent back to the Thai port of Laem Chabang where it entered the country.

Exporters from both Laos and Northeastern Thailand benefit from no delay in accessing containers in their region, which means they can swiftly and easily expedite their freight on its journey to the port.

Effective immediately, the container depot in Vientiane will support all CMA CGM Group carriers and will additionally provide storage, repacking and assembly services within the Free Trade Zone from which it operates.

"Our close cooperation with CMA CGM to deliver a unique industry

proposition has been warmly welcomed by customers in both Laos and Northeastern Thailand. It serves as a very concrete example of the tangible benefits the strategic partnership with CMA CGM already brings to our customers, providing them with faster access to our global network, adding value to their supply chains and helping preserve the environment," says Elaine Low, South East Asia Executive Vice President, CEVA Logistics.

CEVA Logistics says it is fast expanding its operations in the emerging Southeast Asia markets, as illustrated by the opening on 27 May, 2019 of its office in Phnom Penh, Cambodia. The region's rapidly emerging economies present considerable growth potential, providing significant development opportunities in the transport and logistics sector, it added.

Unisys and PayCargo partner to integrate payment processing capabilities into unisys' award-winning cargo software and services

## Unisys and PayCargo agree to use Digistics software on payments

**BLUE BELL, PA:** Unisys Corporation (NYSE: UIS) and PayCargo, LLC, a provider of electronic invoicing and settlement solutions for the shipping industry, announced they agreed to integrate Unisys' award-winning Digistics™ cargo software solutions with PayCargo payment processing capabilities to deliver enhanced cargo processing to airlines, freight forwarders and importers.

Through this agreement, PayCargo payment processing services can be integrated into the Unisys operating modules of Digistics to offer clients real-time payment processing capabilities, including automated payment creation and scheduling, as well as tracking for the freight forwarder and importer and remittance validation for the airline.

These services will streamline the payment process for cargo import operations, enabling faster shipment delivery and improved cash flow for airlines.

## Rhenus delivers goods via Antonov from Cologne/Bonn Airport to Rio de Janeiro

A heavyweight commissioned by global logistics services provider Rhenus took off from Cologne/Bonn Airport on 3 June at 10 pm via an Antonov An-124 100. After flying over Europe and Africa for two days, the aircraft loaded with 106 tons reached its destination in Brazil on 5 June. The aircraft has a wingspan of 73 meters and weighs around 173 tons empty. In total, only 28 Antonov aircraft are currently in operation worldwide. Image Credit: Rhenus SE & Co. KG



# materials handling

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# Air Cargo Europe 2019 and Transport Logistics

## Industry experts see optimistic future with more technology integrated in operations

Despite the many uncertainties facing the air cargo industry and the logistics sector, industry experts are still convinced the future looks bright and their operations will become easier and more efficient with technology being integrated into the old systems.

**The June 4-7, 2019 four-day Transport Logistics and Air Cargo Europe simultaneous events held in Munich's Messe Munchen drew 10 percent more exhibitors, 2,374, and about 64,000 visitors from more than 60 countries.**

The largest logistics fair in the world heavily discussed the trade war between the US and China, the shortage of drivers and skilled staff while pinning great hopes on artificial intelligence to address their challenges.

"Transport logistic has confirmed its role as the world's largest intermodal logistics hub. There were 2,374 exhibitors, an increase of 10 percent, and around 64,000 visitors, an increase of 5 percent," said Stefan Rummel, Managing Director of Messe München. The trade fair has grown by one hall to 10 halls and has



once again become significantly more international, an increase of 3 percent points to 56 percent for exhibitors and also by 3 percent points to 47 percent for visitors.

"We saw strong growth from China, where the number of exhibitors almost doubled by 30 new ones to 64," Rummel further stated. "Chinese companies are increasingly looking for cooperation partners in Europe as part of the Silk Road Initiative."

The driver shortage was also one of the dominant topics. In addition to more attractive working conditions, artificial intelligence could help in the long term; this should make logistics chains more transparent and efficient overall.

### Is Logistics in the Driving Seat?

The major challenges facing the industry were discussed at the opening of a high-profile round panel discussion. "We need to make the growing traffic flows more

efficient and affordable as well as environmentally and climate-friendly," Federal Minister of Transport Andreas Scheuer stated.

In reference to the global economy, DHL head Dr. Frank Appel expressed restrained optimism, "even though current relations between governments in the US and China are not conducive at the moment." But: "Goods find their way despite customs disputes."

The situation is currently also challenging for air freight, "which is a very volatile business. We have to be open to options and think in the long term," Dorothea von Boxberg stated, Managing Director Product and Sales at Lufthansa Cargo AG.

Alexander Doll, Director of Finance, Freight Transport and Logistics at Deutsche Bahn AG, distinguished between global and intra-regional trade flows: "We still see decent growth in the latter." And Rolf



## NEWS FEATURE



Germany's Federal Minister of Transport Andreas Scheuer, 3rd right, and the Managing Director of Messe München, Stefan Rummel, 2nd right, with other freight and logistics officials who participated at a major forum at the event. Supplied Photo

Habben Jansen, CEO of Hapag-Lloyd AG, explained that his company is well prepared: "We have been an active driver of consolidation in our industry over the past five years, enabling us to strengthen our overall market position significantly."

#### **Machine learning and artificial intelligence**

**The average human brain is said to have about 100 billion neurons that are interconnected. Electrical impulses help transmit information between those neurons, enabling humans to learn, to draw conclusions and to think abstractly, Soloplan, one of the exhibitors at Transport Logistics echoed.**

In artificial intelligence, artificial neurons trained by algorithms are

used, Soloplan said but emphasized the goal is not to reproduce human intelligence but rather develop machine learning to enable systems to learn pattern recognition based on a large amount of data.

"The idea behind machine learning is that, based on training data, systems automatically learn specific models, such as sets of rules. Thanks to machine learning, companies no longer have to create models manually, which means that they do not have to spend time on defining rules, checks and interpretations anymore," it added.

The machine learning process it developed known as CarLo does the following: Transport planning data, such as shipment modes, dates, start and end points, loading items, loading weights and dangerous goods, is fed into the system and processed by an algorithm.

Soloplan takes pride in supporting more than 1,000 customers

worldwide but noted it is impossible to provide each customer with a customised machine learning model. "Therefore, the machine learning algorithm must be able to perform all of the above-mentioned manual tasks automatically without human intervention. That is why Soloplan is developing a self-optimising pipeline, which can train a machine learning model autonomously. The latest version of the CarLo transport management system comes with this newly developed program, which will revolutionise transport planning," the company said.

Soloplan and other companies engaged in software solutions believe using AI in the transport sector will make it work more efficiently, saving time and resources.

#### **Confident despite challenges**

Prior to the event some 2,680 international logistics professionals were surveyed. They shared their

optimism in the future despite political, business and economic challenges in the industry.

"The international logistics industry is optimistic. Forty-three percent of the logistics professionals surveyed see the further economic development rather positively, and 41% believe it will remain stable," Rummel shared.

"At the same time, the trend barometer of transport logistic shows that companies are facing the challenges, adapting and investing in future technologies," he added. The opinion research institute IfaD conducted the survey online among previous trade fair participants on behalf of transport logistic in February 2019. Seventy-two percent of the 2,680 respondents are in managerial positions.

**Despite many economic and political uncertainties, logistics professionals in Germany (1,599 respondents), other European countries (868) and beyond (213) see economic development globally and in their respective countries as rather positive (43%) or stable (41%). They feel ready to face the challenges.**

Sixty percent of companies are taking measures such as efficiency programs to cushion a possible slowdown in the economy. In addition, 61% say they will adjust their supply chain or do so in the near future due to stronger trade conflicts and punitive tariffs.

**Staff shortages is the biggest challenge**

One of the biggest challenges facing



the logistics industry is the lack of good staff. Forty-five percent complain about the lack of skilled workers, and 33% about the lack of drivers. Increasing price and competitive pressure is also at the top of the list at 40%, 33% also regard digitalization of business processes as particularly challenging, and 25% cite increasing bureaucratic constraints.

Respondents also had the opportunity to specify their own topics. The quality of infrastructure was particularly criticized.

**60 percent invests in innovative technologies**

However, companies not only see challenges; 60% of respondents say that their company is investing in innovative technologies. Top 5 technologies: "Industry 4.0 and IoT" (25%), "Telematics and Autonomous Driving" in the same measure as "Alternative Drives /Electric Mobility" (22% each) as well as "Robot Use" and "Artificial Intelligence" at 14% each.

In the midst of digital transformation The logistics industry is in the midst of the digital transformation. Eleven percent see themselves as pioneers in this field, 33% already have a digital overall strategy in the

company, and 44% have already digitalized many processes and will do this with other ones. Sixty-four percent say their company invests sufficiently in digitalization. Thirty-five percent of respondents reported their company works with start-ups to drive innovation.

Cooperation is a trend in city logistics

Clogged inner cities, area competition, challenge of the last mile – to make city logistics smart, fast and clean, the three most important measures are: cooperation with other participants (20%), alternatively powered delivery vehicles (17%) and the bundling of shipments from different service providers (14%).

**Diesel under pressure**

The diesel engine is under pressure, and consequently many companies are too. Twenty-eight percent of respondents say that (diesel) driving bans jeopardize the profitability of their company. Thirty-three percent already have alternative drives in use in their company, and 41% want to integrate alternative drives into their fleet in the near future. Only 11% want to retrofit existing vehicles. Overall, 54% of respondents say their company will invest in new vehicles.





# Cargolux Airlines

## Nature's friend

By Gemma Q. Casas



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For years now, Cargolux had taken a number of ethical measures protecting animal rights. It had banned a number of controversial commodities such as lion bone or hunting trophies from shipment across its network.

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## COVER STORY

**C**argolux Airlines made headlines in June when it successfully transported two captured Beluga whales—Little Grey and Little White—from China to Iceland. They traveled some 6,000 miles to claim freedom for the first time after more than 12 years in captivity in a Shanghai amusement park entertaining countless spectators every day to their new home, the world's first open water sanctuary for Beluga whales. Their move heralds a major step to global efforts to protect beluga whales and other wildlife in captivity.

**Richard Forson**  
CEO, Cargolux Airlines



Created by the global marine wildlife charity, Whale and Dolphin Conservation (WDC), the SEA LIFE TRUST Beluga Whale Sanctuary is one of the biggest developments in captive whale and dolphin care and protection in decades and the first of its kind to be created for cetaceans.

The Luxembourg-based Cargolux Airlines, Europe's leading all-cargo airline with its modern and efficient fleet consisting of 14 Boeing 747-8 freighters and 16 Boeing 747-400 freighters, made the epic journey possible with careful planning,

technical experts and time-tested capabilities to undertake special projects.

**No to hunting trophies**

Cargolux Airlines CEO Richard Forson, a first generation South African-Chinese, told **Air Cargo Update** nature is something close to his heart growing up in the African continent communing with animals, wildlife & their natural environment.

In an interview in Munich, Germany where Cargolux participated in Air Cargo Europe 2019, Forson shared there's a need for a global movement to protect

more nature and wildlife.

**"I was born and bred in South Africa," Forson shared. "I've seen the decimation of the elephant population. For example, elephants are killed for fashion items. Snakes are killed to make handbags and other fashionable items," he said lamenting the practice's impact to the wildlife's population that if not changed would make them extinct.**



## COVER STORY



Illegal wildlife trade is indeed a serious crime threatening the world's wildlife population. It is in fact a multibillion business and is today the world's top fourth transnational crime.

The United Nations estimated the value of illegal wildlife trade in 2016 as somewhere between USD7-23 billion annually while the Interpol recently pegged its value at USD20 billion. Africa appears to be the most vulnerable for animal poaching devastating its wildlife populations, threatening their survival for years to come.

For years now, Cargolux had taken a number of ethical measures protecting animal rights. It had banned a number of controversial commodities such as lion bone or hunting trophies from shipment across its network.

The airline is also a signatory to

the United for Wildlife International Taskforce on the Transportation of Illegal Wildlife Products to fight illegal animal trafficking. And as an advocate for animal welfare, Cargolux reviews each demand for animal transport carefully to ensure ethical practices are upheld throughout the transportation chain.

#### Sustaining Growth

Forson first came to work for Cargolux in 2012. By 2016, he was tapped to lead the company which has more than 2,000 employees worldwide. Remarkably, the company made unprecedented financial growth when he assumed his post and the momentum keeps going.

"I think a lot of it depended on the market and also being in a position to work as a team," Forson modestly said when asked how he

managed to bring major profits within just a short period of time. "It started in 2016, the fourth quarter, it was really a surprise for everyone in the industry. It improved in 2017 and 2018 was also a very good year for us."

**Cargolux's consolidated net profit after tax for 2018 amounted to USD211.2 million, nearly double its 2017 profit of USD122.3 million despite a global softening in market demand in the second half of 2018.**

The company attributed its good performance to increased demand for its transport solutions with the Cargolux Group producing a total of 8,409 FTKs across its worldwide network while the available ton kilometers grew to 12,375 million



resulting in an overall load factor of 67.9% for the year.

Forson also credited their growth to "strong focus of the management on their capacities and yields, increased demand for specialized shipments, a record year for our charter division and the diversification into offering ACMI solutions all contributed to the performance achieved" and their dedicated staff.

"No one is more important than the other. If I don't have someone to load in the aircraft, we won't be able to fly," Forson said of their operations. "It's a 24/7 365 job as far as I'm concerned, day or night it's up in the air (the freighters)."

He added that he continues to encourage employees to work harder to make Cargolux a success. "I tell them if they want sustainable jobs then help me make Cargolux a sustainable business from a financial perspective, from an environmental perspective while keeping our social responsibility towards employees and the community that we operate in."

The CEO said it helps that Cargolux continues to invest on people, technology, facilities and infrastructure making their work easier and more efficient for customers who demand quality service.

"To be sustainable we have to be agile. We have to be flexible. And to do that you have to be ready to change in a moment's notice. You have to accept that there will be some issues along the way but the important thing for me is to realize that there are solutions available



for those issues," said Forson who has been in the aviation industry since 1990 working his way up to become the CEO of one of the world's biggest cargo carriers.

**Cargolux plans to hire more people while taking major transformations like completely overhauling its IT system to streamline processes, synergize teams internally and enhance customer experience.**

Forson said these are all part of the company's lean and green philosophy and ongoing digitalization initiatives.

"We're now taking it to the next step. A lot of things will be automated," he said.

Cargolux seems to be heading for another busy year. The cargo carrier announced in June it's serving Jakarta, the 16th

destination in its Asia-Pacific network. The once a week flight leaves the Grand-Duchy on Sunday and arrives in Jakarta on Monday. The rotation then continues through Hong Kong and Ashgabat before returning to Luxembourg on Tuesday morning.

On July 1, it launched a third weekly frequency to Xiamen to meet growing customer demand. The new service, CV9721 is operated every Monday morning, departing Luxembourg at 8:10 a.m. with arrival in Xiamen on Tuesday at 4:40 a.m.

The return flight, CV9731, is scheduled to leave Xiamen at 6:15 a.m. and is routed through Los Angeles before returning to Luxembourg where it lands at 6:15 a.m. (All times provided are local), cementing Cargolux's strong position in China and on transpacific trade lanes.

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## Little Grey and Little White's epic journey back to the wild



Little Grey and Little White continues to do well after safely landing in Iceland on June 19 following a 6,000 mile flight from China.

The SEA LIFE Trust says the two captive whales will continue to be monitored while in the sanctuary in a natural bay on Heimaey, one of the Westman Islands, located off the southern coast of Iceland.

Throughout their 11.30-12-hour flight journey, Little Grey and Little White were monitored by their care teams to ensure they remained safe and comfortable. A Cargolux engineer and a team of global veterinary experts with experience in transporting marine mammals were also on board, to guarantee the whale's welfare, whilst ensuring flight safety requirements were upheld.

"We're absolutely delighted Little Grey and Little White have safely touched down in Iceland. This is a complex but inspiring project and we've been working with the whales for months helping to prepare them for travelling to their new home," said Andy Bool, Head of SEA LIFE Trust.

"We'll continue to carefully monitor the whales but we're pleased with their overall progress and welfare checks, which have been taking place throughout the relocation. The co-ordination of this project has been down to so many people and we're extremely grateful for all their hard work, and are thrilled this epic journey has gone as planned."

The 747-400ERF freighter plane was welcomed onto the tarmac with a ceremonial water salute from two fire trucks firing a water arc over the plane, in celebration of Iceland's

**"The world's first whale sanctuary represents a pathway to the end of the keeping of whales and dolphins confined for entertainment. We are proud to be a partner of this important project that will improve welfare for these belugas, and show the world that there is an alternative to whale and dolphin captivity."**



newest residents' safe arrival.

Richard Forson, Cargolux President and Chief Executive Officer, added: "We are delighted that Little Grey and Little White enjoyed a seamless journey onboard our Cargolux aircraft. The success of this undertaking is the reflection of the dedication and commitment of teams across all of our organisations who worked tirelessly to make this happen.

"This epic relocation required complex logistical efforts, and we are proud to have been part of this incredible journey. We hope that Little Grey and Little White rapidly adapt to their new home and that their story will serve as a precedent for other cetaceans held in captivity."

Created in partnership with global marine wildlife charity, Whale and Dolphin Conservation (WDC), the SEA LIFE TRUST Beluga Whale Sanctuary is one of the biggest developments in captive whale and dolphin care and protection in decades and the first of its kind to be created for cetaceans.

"Having been originally involved in discussions about a sanctuary with

SEA LIFE 20 years ago, and having helped with this beluga whale project from the beginning, WDC is naturally very excited to be part of the welcoming committee for Little White and Little Grey as they touch down in Iceland," Cathy Williamson, Whale and Dolphin Conservation's End Captivity Programme Policy Manager concluded.

"The world's first whale sanctuary represents a pathway to the end of the keeping of whales and dolphins confined for entertainment. We are proud to be a partner of this important project that will improve welfare for these belugas, and show the world that there is an alternative to whale and dolphin captivity."

The sheltered bay will be the world's first open water sanctuary for beluga whales in what is a ground-breaking global marine welfare project. The bay, which measures approximately 32,000 sqm with a depth of up to 10m has been chosen to provide a more natural sub-Arctic environment and wilder habitat for these amazing whales to call home.





## TRUCKING

# Platooning in the logistics industry: Great potential in real operations after successful field test

35,000-km pilot project run by DB Schenker, MAN Truck & Bus and Fresenius University of Applied Sciences shows electronically linked trucks increases road safety and efficiency.



The participants of the platooning-project presented the research results at the final event at the Federal Ministry of Transport and Digital Infrastructure (BMVI) in Berlin (l.t.r.): Joachim Drees, MAN Truck & Bus, Alexander Doll, Deutsche Bahn, Dr. Tobias Miethaner, Federal Ministry of Transport and Digital Infrastructure, Andy Kipping, Truck Driver DB Schenker, Prof. Dr. Sabine Hammer and Prof. Dr. Christian Haas, both Hochschule Fresenius. Supplied Photo

**O**perating electronically linked trucks on German motorways is safe, technically reliable and easily applicable in the routine of a logistics company, thus, we're the findings of the world's

first field test with truck platoons in real logistics operations, which the project partners presented in Berlin recently.

Professional drivers drove two electronically linked vehicles on the Autobahn 9 between the Nuremberg and Munich branches of the logistics company DB Schenker over the course of seven months as part of the research project sponsored by the Federal Ministry of Transport and Digital Infrastructure (BMVI).



Having covered some 35,000 test kilometers, the truck drivers, who drove at a distance of only 15 to 21 meters, praised the driving comfort and the general sense of safety. The field test also demonstrated savings in fuel consumption.

The Federal Ministry of Transport and Digital Infrastructure (BMVI) contributed funding of approximately EUR1.86 million to the research project. The project partners DB Schenker, MAN Truck & Bus and the Fresenius University of Applied Sciences presented the results at the Ministry.

According to the project partners, the use of truck platoons could ensure more efficient use of space on motorways, less

congestion and increased road safety.

"The mobility of the future will be automated and networked. Of course, this is also true for logistics. I therefore fully support the industry in bringing technologies such as platooning to market maturity," said Andreas Scheuer, Federal Minister for Transport and Digital Infrastructure.

"We want to make the processes even safer, more efficient and more environmentally friendly, all along the value chain. The drivers have a key role to play here. In a digital truck they will be modern logistics specialists. This will open up new prospects for the profession."

Doll believes platooning

possible on 40% of kilometers operated by land transport

According to DB Schenker's research, platooning can be used extensively in the logistics network.

Alexander Doll, Member of the Management Board for Finance, Freight Transport and Logistics at Deutsche Bahn AG said, "We have analyzed our European transport network and it is safe to say that around 40% of the kilometers traveled could be carried out in platoons." For this, however, further tests and ensuring the regulatory framework would be necessary. Customers would also benefit. "With platooning we can offer even more reliable transports."

The platooning system installed



## TRUCKING



in the MAN trucks operated smoothly 98% of the time. Active interventions by the driver were necessary only once every 2,000 kilometers, which is much less than expected. In addition, the pilot project demonstrated a 3 to 4 percent reduction in fuel consumption.

"We were able to show that platooning has the potential to contribute to the reduction of fuel consumption and CO2 emissions. First and foremost, we are pleased that the system works reliably and can increase safety on the motorway. Accordingly, platooning is an important step for us on the way to automation," said Joachim Drees, Chairman of the Management Board of MAN Truck & Bus SE.

**Scientists confirm that drivers feel safe**

Scientists from the Fresenius University of Applied Sciences investigated the psychosocial and neurophysiological effects on the drivers. Having experienced the

actual field test brought about a significant change in the previously sceptical attitude of the drivers.

"A general sense of safety and trust in the technology is echoed in the drivers' assessment of specific driving situations. None of these were described as uncontrollable," said Professor Sabine Hammer from the Institute for the Science of Complex Systems (Institut für komplexe Systemforschung, IKS) at the Fresenius University of Applied Sciences.

The drivers experienced vehicles of other road users cutting in from adjacent lanes or cutting across multiple lanes as "disagreeable", but not critical. "Due to the fast response times of the system, drivers would now prefer a distance of 10-15 meters," said Hammer.

"The EEG measurements show no systematic differences between platoon runs and normal runs when it comes to the

neurophysiological stress placed on drivers, i.e. in terms of concentration or fatigue," said Professor Christian Haas, Director of the IKS. For international use, the scientists recommend further research with longer periods in platooning mode.

The project partners are convinced that the potential of truck platooning can be further increased by future developments. In addition, new digital business models in logistics are conceivable.

**How platooning works**

The term "platooning" refers to a system that vehicles use on the road in which at least two trucks drive in a tight convoy on a motorway, supported by technical driving assistance and control systems.

All vehicles driving in the platoon are electronically linked to each other. The truck in front sets the speed and direction, and the others follow.

**Source: [www.truck.man.eu](http://www.truck.man.eu).**





## Quick Facts: Practical operation

- ✓ Operation between DB Schenker terminals between Munich and Nuremberg (around 145 kilometers) on the digital test section of the A9 autobahn
- ✓ Time period: August until December 2018 (initially dummy cargo, followed by real cargo from the European cargo network of DB Schenker)
- ✓ Departure from Munich each time 9.30 pm, departure from Nuremberg each time 1.30 am
- ✓ Driving in platoon: average of around 73 kilometers per trip  
Total kilometers driven during practical operation: 35,000
- ✓ Longest permitted platoon phase: 30 minutes
- ✓ Permitted maximum speed: 80 km/h
- ✓ Compulsory separation of platoon at freeway junctions, ahead of roadworks, on up/downgrades of over four percent as well as in especially heavy traffic; platooning not permitted on wet roads
- ✓ Fuel saving: three to four percent in the follower vehicle, 1.3 percent in the lead vehicle
- ✓ Research setting
- ✓ Scientific monitoring over 13 months by six scientists from Fresenius University
- ✓ Use of electroencephalogram (EEG) and mobile eye-tracking glasses while driving
- ✓ EEG: Derivation of voltage fluctuations at the surface of the head caused by constant electrical changes of state of brain cells; analysis of degrees of alertness and activation of each driver
- ✓ Eye-tracking: Analysis of eye movements (distribution of glances, duration of focusing, areas of interest)
- ✓ As part of the social-science investigations, open interviews with the drivers; prior to the test phases, 23 drivers in groups and the ten test drivers in individual interviews (contents: career choice, job characteristics, job rating, assumptions with regard to practicability, safety and consequences of platooning technology); after the test phase, participating drivers in individual interviews (contents: experiences, rating and possibilities for improvement of the technology); also standardized questionnaires on technology acceptance, trust in technology, subjective alertness and safety-relevant rating of specific driving situations

## Gateway to Eurasia



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## Etihad marks UN World Refugee Day with a range of initiatives for Syrian refugees



A delegation from Etihad Airways, Ministry of Foreign Affairs and International Cooperation, Emirates Red Crescent and volunteering staff from Etihad Youth Council visits Syrian refugees in Mrajeeb Al Fhood refugee camp in Jordan.

**ABU DHABI:** UAE national carrier Etihad Airways marked the June 20 UN World Refugee Day unveiling a range of education initiatives and donating urgent supplies for Syrian refugees in Mrajeeb Al Fhood Camp in Jordan.

Etihad opened the Etihad Airways Learning and Development Centre to provide refugee children with IT and computer skills to help equip them for the future, part of its commitment for humanitarian causes.

It also distributed books, bags and stationery to 2,400 children in the camp, as part of an ongoing program to help support education among underprivileged groups.

It simultaneously launched the Etihad Tolerance Bakery an initiative for the UAE 'Year of Tolerance', to develop professional baking skills among refugee women in the Jordan camp, and help them to earn income from bakery sales.

Etihad onboard chefs hosted baking workshops and conducted cooking challenges for the women, providing prizes and cooking equipment to winners and participants. Additionally, the airline also teamed up with Emirates Red Crescent and the Ministry of Foreign Affairs and International Cooperation

to donate relief items including garments, blankets, amenity kits and dry foods to families in the camp.

Members of Etihad senior management, Etihad Youth Council, and volunteering delegations from Emirates Red Crescent and the Ministry of Foreign Affairs and International Cooperation, also engaged with the children and the camp residents in a range of entertainment activities.

"Education is the cornerstone for developing any community, and by supporting their education opportunities, we can invest in the future of these children and help to protect them from falling prey to human trafficking or terror. I would like to thank our partners and volunteering staff who joined us to participate in these events and deliver supplies. Their efforts and time have been well-spent in serving this noble cause," shared Khaled Al Mehairbi, Honorary Chairman of Corporate Social Responsibility Program, Etihad Aviation Group.

Etihad Airways had previously provided education supplies and helped renovate schools in countries including India, Kenya, Serbia, Philippines, Bosnia, Uganda, Bangladesh, and Sri Lanka.

## SAUDIA is first in MEA to receive IATA Level 4 NDC certification

**JEDDAH:** Saudi's national flag carrier became the first airline in the Middle East and Africa Region to receive the to receive the International Air Transport Association (IATA) Level 4 New Distribution Capability (NDC) certification.

Saudi Arabian Airlines (SAUDIA) was granted the 'New Distribution Capability' – a functionality used by the travel trade for booking air travel for individual and group bookings. It enables travel professionals to access content such images of the inflight cabin; add ancillary products, such as WiFi packages, excess baggage, and more.

SAUDIA has deployed the Offer and IATA One Order Certified Order Management Solution from the vendor TPConnects, along with NDC enabled distribution to Travel Agents and Online Travel Agents.

TPConnects OfrMS is integrated on top of the assets (Passenger Service System, Frequent Flyer Program, etc.) as part of SAUDIA's strategy in pushing offers including air and non-air ancillaries along with flights, both bundle and a la carte.

Embracing SAUDIA NDC certified solution by Travel Agents provides access to broader airline inventory, including seats, air and non-air ancillaries, bundles and a la carte, with varied rate tiers and packages along with Rich Media.





## AIRLINES

## Ethiopian signs \$500 million deal with Collins Aerospace



**ADDIS ABABA:** Africa's largest airline company, Ethiopian Airlines Group, signed a 25-year US\$500 million agreement with Collins Aerospace for the maintenance and part supplies for its fleet of aircraft.

Collins Aerospace, one of the world's largest suppliers of aerospace and defense products based in West Palm Beach, Florida, will provide maintenance of heat exchangers, air management systems and fuel metering units on 60 De Havilland

Canada Dash 8-400 turboprops.

"Within our strategic roadmap, Vision 2025, we envision making our MRO unit the leading service provider in Africa with revenue close to \$600 million. As our MRO continues to rapidly expand in line with our strategy, the new partnership enables us serve other African carriers with their Q-400 aircraft maintenance needs," said Ethiopian Group CEO Tewolde GebreMariam.

Ethiopian MRO unit has seen significant growth over the past decade and currently provides airframe maintenance on the Airbus A350XWB, Boeing 737/757/767/777/787, Bombardier Q100/Q200/Q300/Q400, Diamond DA40/42 NG and Cessna 172 series training aircraft, including heavy maintenance checks and modifications.

The MRO facility also carries out scheduled A, B, C and D checks as well as unscheduled maintenance work and winglet installations on the 767 and 737.

Ethiopian MRO is the first African MRO to develop repair capability for GE Aviation's GEnx engine, which powers the 787. In Addition, Ethiopian MRO has developed an engine overhaul capability for the CFM International CFM56-7B/3, Pratt & Whitney PW150A and Honeywell GTCP 331-200 and GTCP 131-9B auxiliary power units.

## Delta acquires 4.3 percent equity share in Hanjin-KAL

**ATLANTA, GEORGIA:** Delta has acquired a 4.3 percent equity stake in Hanjin-KAL, the largest shareholder of Korean Air, with possibility of increasing its share to 10 percent subject to regulatory approval.

Delta said the move is part of its strategy to for better market positioning and growth opportunities the partnership enables. Delta intends to increase its equity stake to 10 percent over time, after receiving regulatory approval.

"Together with the team at Korean Air, we have a vision to deliver the world's leading trans-Pacific joint venture for our shared customers, offering the strongest network, the best service and the finest experience connecting the U.S. with Asia," said Delta CEO Ed Bastian. "This is already one of our fastest-integrating and most successful partnerships, and experience tells us this investment will further strengthen our relationship as we



continue to build on the value of the joint venture."

Delta and Korean Air operate the industry's most robust trans-Pacific joint venture, providing customers with seamless access to more than 290 destinations in the U.S. and over 80 destinations in Asia, including the partnership's award-winning hub at Seoul-Incheon (ICN).

Since launching in May 2018, Delta

and Korean Air have strengthened cooperation by expanding joint operations in the trans-Pacific to include more than 1,400 codeshare flights, including connections throughout Asia and the U.S.

Additionally, Korean Air and Delta have launched cargo cooperation across one of the most comprehensive route networks in the trans-Pacific market.

## Emirates adds 46 flights during the busy Hajj season



**DUBAI:** Emirates says it will its services to Jeddah and Medina with an additional 46 flights to help facilitate travel for Hajj pilgrims heading to and from the Kingdom of Saudi Arabia between July 27 to August 22 to support the Hajj journey to the Holy City of Mecca.

The services will run in parallel with Emirates' regular scheduled services to Jeddah and Medina, and will be available to travellers holding a valid Hajj visa.

This year, Emirates expects thousands of pilgrims to travel on its services for Hajj, coming from top inbound destinations such as Pakistan, the United States, Senegal, the UK, Nigeria, Indonesia, South Africa and Ivory Coast.

"Hajj is one of the most significant events in the Muslim faith, and every year, Emirates' primary focus is to help facilitate seamless travel for our Hajj passengers as they converge on the Holy City of Mecca for this once in a lifetime journey. With the substantial increase of inbound air travel into the Kingdom during this period, Emirates' 46 extra flights will ensure that we can cater to that demand, as well as provide tailored onboard services in line with the tenets of Hajj," said Adil Al Ghaith, Emirates' Senior Vice President, Commercial Operations, Gulf, Middle

East and Iran.

Emirates says it has commissioned a dedicated team to manage check-in and transfers for the seamless movement of Hajj passengers leaving from and transiting in Dubai.

In the air, Emirates has planned several initiatives that uphold the values and traditions of pilgrims when travelling for Hajj. Extra provisions will be made to accommodate Hajj traveller needs such as performing ablutions and other cleansing rituals as well as advising passengers when they have entered Al Miqat zones to ensure readiness for Ihram (the point when pilgrims enter a state of sanctity) through dedicated passenger announcements.

This is in addition to other service and product measures such as providing extra blankets and unperfumed hot towels. Emirates' award winning ice system will also feature a special Hajj video that covers safety, formalities and information about performing the Hajj pilgrimage. Pilgrims will also be able to tune into the Holy Quran channel during their journey.

On flights from Jeddah, Hajj passengers can bring up to 5 litres of holy water (Zamzam) which will be placed in special areas in the cargo hold, the airline noted.

## Qantas Group to build second Pilot Academy in Mackay, Queensland

**SYDNEY:** Qantas Group announced Mackay, Queensland, has been chosen as the preferred location for its second Pilot Academy site.

The Group narrowed down the selection from a shortlist of nine regional cities. The first Pilot Academy will be built in Toowoomba in southern Queensland.

The Academy is part of the Qantas Group's strategy to build a long-term talent pipeline for its own airlines and help the broader industry meet the increasing need for skilled aviators.

Estimates suggest that 790,000 more pilots will be required globally over the next 20 years with around one third of them in the Asia Pacific.

Mackay was selected due to a high proportion of clear weather days per year, access to uncongested airspace, access to support infrastructure and ability to attract students and trainers to live in the area.

Qantas will now work with Mackay Regional Council, Mackay Airport and the Queensland Government to further progress the proposal for the site.

In the meantime, Qantas is focused on opening the Pilot Academy's first site in Toowoomba which is on track to open its doors to the first student intake in September 2019 with construction on hangars, classrooms and student accommodation underway.

# NEXT STOP MUMBAI



## Key facts of air cargo India 2018:

VISITORS	2354
EXHIBITORS	74
DELEGATES	478

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## Heathrow expansion project public consultation begins



**LONDON:** Heathrow has launched its 12-week statutory public consultation on its massive expansion project that involves a new runway and other airport infrastructure such as terminals and road access.

The Airport Expansion Consultation runs from 18th June until 13th September 2019 giving public the opportunity to provide feedback on Heathrow's proposals for the future layout of the airport.

The public will also be able to have their say on plans to manage the environmental impacts of expansion, including a proposed Heathrow Ultra Low Emissions Zone, Heathrow Vehicle Access Charge and a proposed 6.5-hour ban on scheduled night flights.

"Expansion must not come at any cost. That is why we have been working with partners at the airport, in local communities and in Government to ensure our plans show how we can grow sustainably and responsibly – with environmental considerations at the heart of expansion. This consultation is an opportunity for people to have their say on our preferred masterplan, so it's really important that as many people as possible take part. We look forward to hearing your views," said Emma Gilthorpe, Heathrow's Executive Director for Expansion, as she urged

local people to participate in the consultation process.

The Airport Expansion Consultation also reveals plans for the airport's growth in phases – from runway opening in approximately 2026, to the end masterplan in approximately 2050. This incremental growth will mirror the forecasted growth in passengers and help airport charges remain close to 2016 levels, delivering more affordable fares for passengers.

The consultation will be Heathrow's largest and most innovative public consultation to date, with 43 consultation events to be held during the 12-week period. As part of this consultation, a website will also be available with all the information about Heathrow's proposals, videos to help explain the plans, and an online feedback form to assist as many people as possible to participate and have their say.

Hard copy consultation documents will be available to view in 42 different locations across local communities. Heathrow has also invested in new technology to bring the plans to life, including a physical model of the future airport which features augmented reality, sound booths to demonstrate the effect of noise insulation on properties overflown by aircraft, and a CGI fly through video.

## Flights disrupted and close to 17,000 residents evacuated as Frankfurt detonates WWII bomb

**FRANKFURT:** Flights for approaching and departing aircraft at Frankfurt Airport were disrupted on July 7 and some 16,500 people in the affected area, including residents of a nursing homes, were ordered to leave as the city detonated an American World War II bomb planted underground Germany's financial center.

"Due to the disposal of a WWII bomb in Frankfurt, flight routes for approaching and departing aircraft at Frankfurt Airport will be altered on Sunday (July 7) – possibly resulting in delays and flight disruptions," Frankfurt Airport's operator Fraport AG said in a statement.

"Passengers are requested to check the status of their flights on the website of the respective airline before traveling to the airport. The bomb disposal will also affect train services and public transportation in and around Frankfurt," it added.

The bomb was discovered around Frankfurt Zoo and the European Central Bank prompting authorities to evacuate residents in nearby areas and altering flight schedules for safety reasons. Officials said the animals at Frankfurt Zoo need not be moved.

A bomb disposal team worked on defusing the 500-kilo American bomb. In 2017, some 65,000 residents were evacuated to defuse a 1,600-kilo British bomb also planted underground in the German city during WWII.



## AIRPORTS

## Istanbul Airport launches 'It is a Dream, Come True' book chronicling Turkey's biggest aviation project



**ISTANBUL:** Turkey has published a new book "It is a Dream Come True" chronicling the country's biggest aviation project, the Istanbul Airport, now touted as the world's biggest airport.

IGA, the operator of Istanbul Airport, the gigantic airport was

completed within just 42 months and that the book was published as a major resource for the country's aviation sector.

The book tells the story of all the processes of Istanbul Airport from the past to the present, the narratives of people who have

witnessed and directed the project, as well as the detailed construction process, including the contributions of many people, from architects to engineers, from workers to laborers, who resisted all obstacles and who worked hard to build the Victory Monument.

"In the book, in which all the processes of Istanbul Airport are explained, the history of Istanbul, the tender processes of the airport, environmental and sustainability studies, the firsts in construction, technological infrastructure, the special systems of the airport and most importantly the developments behind the scenes of the construction process are explained," said IGA.

Readers can access the e-book version in both English and Turkish at <https://www.igairport.com.tr/hayaldi-gercek-oldu-e-kitap>.

## Technovation at Hong Kong's SKYCITY

**HONG KONG:** Leveraging state-of-the-art technology and creativity to develop unique dining, entertainment and retail elements, and combining experiences in learning, exploration and adventure, Hong Kong's SKYCITY at Hong Kong International Airport (HKIA) is poised to be the largest facility of its kind in the region.

Scheduled to be opened in phases from 2023 to 2027, the RDE facilities being developed by New World Development will take up a maximum gross floor area of 350,000 square metres.

SKYCITY enjoys a strategic



location of neighboring the Hong Kong-Zhuhai-Macao Bridge which has significantly enhanced the connectivity of HKIA with 10 other cities in the Greater Bay Area.

With an investment of HK\$20

billion by New World Development, the RDE facilities in SKYCITY will introduce an array of leading international technovation brands to the city that is set to disrupt the concept of entertainment.

## World Economic Forum labels Nokia's 5G'factory of the future' as 'Advanced 4th Industrial Revolution Lighthouse'



**ESPOO, FINLAND:** Nokia's 5G "factory of the future" in Oulu, Finland was selected by McKinsey and the World Economic Forum as an Advanced 4th Industrial Revolution (4IR) Lighthouse, reflecting leadership and proven success in adopting and implementing 4IR technologies at scale.

It says leveraging Nokia technologies to digitalize its own pre-production facility demonstrates the company's ability to digitally transform and modernize its customers' manufacturing facilities for Industry 4.0.

Designed to showcase Industry 4.0 concepts for the manufacturing of Nokia 4G and 5G base stations, the "factory of the future" in Oulu leverages Nokia's private (4.9G/LTE) wireless networks for secure and reliable connectivity for all assets within and outside the factory, IoT analytics running on Edge cloud, and a real-time digital twin of operations data.

The factory, which produces 1,000 4G and 5G base stations per day, generated significant annual improvements, including more than 30 percent productivity gains, 50 percent savings in time of product delivery to market, and an annual cost savings of millions of euros.

The Lighthouse program, conducted in collaboration with McKinsey, includes select Lighthouse factories that are transforming work to make it safer, less repetitive, diversified and productive.

Nokia was selected as a Lighthouse by an expert panel based on its implementation of 4IR technologies that drove financial and operational impact in the Oulu factory. As part of the Global Lighthouse Network, Nokia will collaborate with other world leaders to share knowledge and best practices to help enterprises and manufacturers adopt the technologies of the future, and overcome key challenges enterprises face during their digital transformation journeys.

"We are paving the way for enterprise customers to realize the vision of Industry 4.0 and industrial automation by applying our

technology to our manufacturing needs. For our Oulu 5G facility, we created a 'factory of the future' environment leveraging private wireless networks for reliable and secure in-factory connectivity, edge cloud and IoT analytics. We are very pleased that our technology has delivered productivity gains of over 30 percent for our factory and we look forward to sharing this expertise with customers, helping them accelerate growth and unlock their full potential," said Kathrin Buvac, President of Nokia Enterprise and Chief Strategy Officer.

Most manufacturers seek to increase flexibility while automating and reconfiguring factories. Nokia's expertise adjusting to high-demand environments ensures that the company is well equipped to lead enterprises into the Industry 4.0 era. The award-winning factory of the future illustrates how customer facilities can reap the benefits of increased productivity, agility, product quality, and product lead time for their businesses, as achieved in Oulu.

### **Demonstrated use cases in Oulu pre-production factory include:**

- ★ Virtualization of new product introduction (NPI)
- ★ Flexible robotics to ensure high-productivity and agility for continuous new ramp-ups
- ★ 4.9G/LTE Private wireless network to speed up NPI line re-layout
- ★ Cloud-based digital data control, enabling real-time process management
- ★ No-touch internal logistics automation via connected mobile robots

"For factory employees, the automation of our Oulu manufacturing environment increases flexibility and adaptability. The 'conscious factory' has evolved the working ecosystem - increasing motivation and the wellbeing of employees by automating the traditionally repetitive tasks, making work more diversified and productive," said Heikki Romppainen, Head of Oulu Factory, Nokia.





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**EXECUTIVE MOMENTS**

## Thomas Sonntag takes over management of Jettainer



**Carsten Hernig (right) at the symbolic key handover to Thomas Sonntag, his successor as Managing Director of Jettainer GmbH.**

**MUNICH/FRANKFURT:** Thomas Sonntag assumed the role of Managing Director of Jettainer, the leading international service partner for outsourced unit load device (ULD) management, effective July 1.

He succeeded Carsten Hernig, who after five successful years as MD, took on a new challenge as Head of Region Latin America & Caribbean in Sao Paulo at the parent company Lufthansa Cargo.

Thomas Sonntag holds a degree in mechanical engineering and has spent more than 10 years in various management positions at Lufthansa Cargo

acquiring comprehensive industry know-how and an excellent network of relevant stakeholders throughout the world. Previously, he held various management positions at Siemens and ABB, among others.

"We would like to thank Carsten Hernig for his successful work and are delighted that he will remain with the Lufthansa family. As a proven supply chain expert and experienced manager, Thomas Sonntag will continue to drive Jettainer's success story forward. Digital topics, further international growth and the development of new business segments will be the focus," commented Harald Gloy, Chief Operations Officer at Lufthansa Cargo and member of Jettainer's Advisory Board.

"We will continue to support Jettainer in the future to operate successfully in the market with innovative strength and agility," he added.

## Tainio is new Finnair Cargo MD as Tarvainen leaves for Norra

**HELSINKI:** Finnair Cargo Managing Director Janne Tarvainen is leaving in July as he assumes his new role as MD of Nordic Regional Airlines (Norra) in August, the company announced.

Mikko Tainio, the Managing Director of Finnair Kitchen with vast experience in company functions having worked in key positions in finance and ground operations, will replace Tarvainen and will sit as well as member of the Finnair Operations leadership team.

"I would like to thank Janne for his great leadership during a time when Finnair Cargo transitioned to a new era, introducing its state-of-the-art

cargo terminal, the COOL Nordic Cargo Hub, with modern tools and ways of working. I wish him all the best for his new role at Norra," said Jaakko Schildt, Finnair's SVP Operations.

Tainio said he looks forward to forging greater collaboration with Finnair Cargo team to achieve their common goals.

"I am happy to see the great work that's been done by the Finnair Cargo team in recent years, particularly the ambitious transformation of working practices and successful expansion of COOL terminal operations. I look forward to continuing the journey with the team towards achieving 1



**Mikko Tainio**

million daily cargo kilos and sharpening the competitive edge that new technologies and processes give us," he said.



## Air Cargo Europe 2019 | 4-7 June | Munich, Germany











# UPCOMING EVENTS

air  
cargo  
update



## World Routes 2019

World Routes is the global meeting place for every airline, airport and aviation stakeholder. The event presents an unrivalled platform for route development professionals to discuss, develop and plan network strategy on a global scale. Providing unique cost and time-saving benefits, World Routes is a 'must attend' event and attracts the most senior decision makers from the world's leading aviation organizations.

**Adelaide, Australia**  
**September 21-24, 2019**

## 7th CCA Pharma & BioSciences Event

The Cool Chain Association is proud to announce its next Pharma Event, which will be organized together with EVA International and take place in Paris, France. More information will follow shortly.

**TBC, Paris, France**  
**September 23-24, 2019**

## IMHX 2019

IMHX is the UK's largest logistics exhibition and acts as a meeting place for those involved in the handling, movement or transportation of goods throughout the supply chain to come together and do business. The growing role of artificial intelligence and technology within modern supply chain operations will be reflected at IMHX 2019: with over a third of exhibitors showcasing some form of automation, robotics, autonomous vehicles or new tech, visitors to the show will be able to discover exciting technology for themselves and get a greater understanding of how it can deliver operational benefits and competitive advantages.

**NEC Birmingham, UK**  
**September 24-27, 2019**

## TIACA Executive Summit 2019

Budapest Airport (BUD) will host The International Air Cargo (TIACA)'s Executive Summit (ES) and Annual General Meeting from 20th to 22nd of November 2019, bringing together decision makers from across the globe for a series of panel discussions, keynote speeches, and round table debates. BUD will host an Opening Ceremony for its new dedicated freight centre, called BUD Cargo City, during the event, inviting delegates, customers, and suppliers, among other stakeholders.

**BUD Cargo City, Budapest, Hungary**  
**November 19-21, 2019**



## Air & Sea Cargo Americas 2019

Air & Sea Cargo Americas will bring together top executives from all sectors of the aviation, maritime and logistics industries to exchange views and experiences to enhance the growth of the cargo industry in the Western Hemisphere. Airports, seaports, exporters, shipping lines, freight forwarders, shippers, importers, consignees, equipment and technology suppliers, among others, will interact, exchanging ideas and information. Topics will include security, regional consolidation, manufacturer and shipper needs in high growth cargo, trade facilitation, improving productivity, speed and service quality, responding to market changes and demands from shippers, consolidators and forwarders, and controlling costs while streamlining customer services.

**Doubletree By Hilton Hotel Miami**  
**Airport & Convention Center**  
**October 30-November 01, 2019**

## Dubai Airshow 2019

The 2019 edition of the Dubai Airshow will once again bring the aerospace community together. Show on show, the Dubai Airshow delivers an unrivalled gateway to established and developing markets – with 80% of the world's population located within eight hours of one of the UAE's airports this is where the industry comes to make connections.

Dubai Airshow 2017 gathered together 1,200 exhibitors from 63 countries, over 79,380 trade visitors with 159 aircraft on display. The event generated an order book of \$113.8 billion, the biggest in its history.

**www.dubaiairshow.aero**  
**DWC, Dubai Airshow Site**  
**November 17-21, 2019**



## 12th Global Supply Chain and Logistics Summit

This summit held annually in Dubai, acknowledged as the biggest and the most informative thought leadership conferencing for supply chain and logistics industry in Middle East, Asian subcontinent, Turkey, Central & East Europe and Africa region, will focus on the latest insight and trends of global trade, economics, transportation, logistics, manufacturing and distribution. Uniqueness and sophistication of supply chain pertaining to various industry verticals like retail, energy, healthcare, automotive and FMCG will be included.

**Dubai, UAE**  
**November 27, 2019**



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- ▶ Our competitive rates make us popular with charters, ad hoc operators and sea-air traffic.



# TURKISH CARGO MAINTAINS ITS SPEED OF OPERATION.

Turkish Cargo continues its operations both at Ataturk and at Istanbul Airports maintaining its consistency for quality and care. Its "on-time performance", defined as planned arrival/departure hours, reached an even higher level this year than in the first quarter of 2018.

According to WACD (World Air Cargo Data), the company maintained its 7<sup>th</sup> position in the rankings, with a tonnage in the first quarter of 2019 amounting to 11.6%. When all phases are complete, Turkish Cargo will comprise a total area of 300,000 m<sup>2</sup>, giving it the capacity to handle four million tons of cargo at the terminal every year. Freightner operations will continue to be carried out from the existing terminal at Ataturk Airport.



**TURKISH  
CARGO**

[turkishcargo.com](http://turkishcargo.com)