Airbus:

1) Emirates Airline has announced a $16 billion deal for up to 36 additional Airbus A380s, securing production of the aircraft type for another 10 years. The commitment is for 20 A380s and 16 options, with deliveries to start in 2020. The order is valued at $16 billion at current list prices.

Emirates’ A380 fleet operates both GE and Rolls-Royce engines; the Dubai-based carrier is evaluating engine options for the latest order.

Together with Emirates’ 101-strong A380 fleet and its current order backlog for 41 aircraft, this new order brings Emirates’ commitment to the A380 program to 178 aircraft, worth over $60 billion. Emirates chairman and CEO Ahmed bin Saeed Al Maktoum said, “We’ve made no secret of the fact that the A380 has been a success for Emirates. Our customers love it, and we’ve been able to deploy it on different missions across our network, giving us flexibility in terms of range and passenger mix.” He said some of the new A380s will be used as fleet replacements. “This order will provide stability to the A380 production line. We will continue to work closely with Airbus to further enhance the aircraft and onboard product,” he said.

Airbus COO-customers John Leahy said Jan. 15 the A380 program would have had to be shut down if Emirates did not order more aircraft. “If we can’t work out a deal with Emirates, it is clear we will have to shut down the
program,” Leahy had said, speaking on Airbus’ 2017 orders and deliveries webinar Monday.

2) **A330neo program development and flight testing on track**

Following the first flights of the first A330neo test aircraft (MSN1795) on 19th October 2017 and the second (MSN1813) on the 4th of December, both are fully operational and are now flying on a daily basis. They have already accumulated more than 290 flight hours and over 80 flights (as of 24th January). This represents a very strong start to the campaign and confirms that the aircraft behavior is in line with predictions. Much has been achieved: The aircraft flight envelope has been fully opened (normal and direct laws); Anemometry has been calibrated; Engine calibration points have been completed in high and low speed; Flutter tests and loads calibration have been performed; Stall tests have been performed and strake configuration has been frozen; Autopilot tests have started (including automatic landing) and climb and high speed performance tests are fully underway.

In the meantime, Airbus is progressing rapidly on readying the next A330neo aircraft to fly -- the third flight test-aircraft and the first A330-800, MSN1888. This aircraft has now completed its structural assembly and flight-test instrumentation installation is on-going. Very soon the aircraft enter the painting hangar to receive its external livery. Moreover, production aircraft are progressing according to plan in the Final Assembly Line and Airbus has completed the installation of the first brand new Airspace cabin.
3) **Airbus partners with ONERA and DLR research facilities to develop next-generation Computational Fluid Dynamics (CFD) capabilities**

Following a recent joint agreement in Toulouse, Airbus is partnering with ONERA, a French aerospace research centre, and DLR, the German aerospace research centre, with the goal of jointly developing common next-generation computational fluid dynamics (CFD) capabilities for advanced airflow prediction, which will play a key role in the development of any future aircraft.

4) **“CityAirbus” demonstrator achieves Iron-Bird ‘Power On’**

Airbus’ “CityAirbus” electrical urban-air-mobility demonstrator programme has reached an important milestone: the completion and “power on” of the “iron bird” ground test facility in Taufkirchen, Germany. This enables the verification of the entire electric propulsion system of CityAirbus, developed by Airbus’ E-Aircraft Systems unit. After being maturated and verified on the iron bird, the propulsion system will be embedded on the demonstrator by mid-2018. The test bench configuration reflects the CityAirbus architecture including motors, power electronics and distribution boxes – developed and produced by Siemens. Meanwhile the development of the CityAirbus airframe vehicle itself is on-going. The first structural parts have already been produced and are on the way to being assembled. These development steps pave the way to the
CityAirbus’ first flight before the end of 2018. CityAirbus is a multi-passenger, self-piloted battery-powered vertical take-off and landing vehicle. It is designed to carry up to four passengers over congested megacities in a fast, affordable and environmentally friendly way. Check this out  Photo

5) **Airbus selected for the next-generation European Satellite-Based Augmentation System (SBAS) – “EGNOS V3”**

Airbus has been selected by the European Space Agency (ESA) as the prime contractor to develop EGNOS V3 – the next generation of the European Satellite Based Augmentation System (SBAS). EGNOS V3 will ensure a full continuity of service for the next decade and will be the first operational SBAS implementing the dual frequency and multi constellation world standard, with both GPS and Galileo, replacing EGNOS V2 which has been in operation since 2011.

As ‘prime contractor’, Airbus will be leading a consortium with contributors from France, Germany, Spain and Switzerland. Airbus will be responsible for the development, integration, deployment and preparation of EGNOS V3 operations, the overall performance of the system and the Central Processing Facility which is at the heart of the real-time navigation algorithms. The A350 XWB is the first Airbus aircraft to offer SBAS operations supported by Airbus’ Satellite Landing System (SLS)
aircraft guidance function (certified on the A350 since EIS).

6) **Airbus acquires new US Training Centre**
Airbus has acquired the Strategic Simulation Solutions flight training centre in Aurora, Colorado, a Denver suburb. Currently, the training centre primarily supports Frontier Airlines and has significant room for growth. Prior to this acquisition, Airbus provided training to the North American region primarily from its Miami, Florida-based training centre. The addition of the new facility will help Airbus meet its long-term growth in expanding markets throughout the Americas. Over the past two years Airbus has expanded its training capacity for customers in the Americas with the addition of training centres in Mexico City, Mexico and in Campinas, Brazil. Currently, the Aurora training centre has two FAA Level-D ‘full-flight’ A320 Family simulators for training of Frontier Airlines pilots on the airline’s all-Airbus fleet. Additional simulators will be added at the Denver facility in 2018 to address anticipated increased demand for training.

7) **Navblue and Honeywell offer combined runway safety solution**

Following a two-year period of joint development, the Airbus subsidiary Navblue and Honeywell are firmly offering a combined solution: Honeywell’s SmartLanding together with Airbus’ ROPS (Runway Overrun Prevention System). This solution, which is built in co-innovation with Lufthansa
Group, is planned to be certified on both Airbus and non-Airbus aircraft. The collaboration combines the strengths of the two technologies: The performance-based runway overrun protection of ROPS and the increased situational awareness during approach and landing of SmartLanding – a software enhancement to Honeywell's Enhanced Ground Proximity Warning System. In July 2016 Lufthansa Group, Honeywell Aerospace and Airbus signed a Memorandum of Understanding (MOU) to work jointly on the development of a runway safety solution combining the best of both systems. Lufthansa Group contributed to the solution design and evaluation with the involvement of flight crews from the early stage of development.

8) Skywise enlists dedicated 4G global telephony partner: Transatel
Airbus has selected Transatel, a leading global Mobile Virtual Network Enabler/Aggregator to add new levels of performance and speed to its connectivity solution on Skywise. The partnership with Transatel means Airbus can assure fast data transfer in any given region, country or, airport, to ensure optimum delivery of Skywise services to its customers. It is the on-board flight operations and maintenance exchanger (FOMAX) which will make use of these data transfer services. FOMAX is a compact connectivity unit which collects aircraft maintenance and performance data from on-board sensors and automatically sends it to ground-based operations. Transatel’s add-on will allow for a seamless and secure transfer of this data during
layovers between flights, with industry leading performance via 4G network access.

9) “Hangar of the future” getting closer to enhance aircraft maintenance…
Airbus will showcase its ‘Hangar of the Future’ (HoF) at the Singapore Air Show. HoF, a logical continuity of Airbus’ successful manufacturing digitisation, is a project to digitise and automate maintenance activities to increase the overall maintenance process efficiency. HoF combines the use of innovative technologies and smart, IoT (internet of Things)-connected equipment such as ‘cobots’ (collaborative robots), drones, scanners, cameras, non-destructive sensors, with aircraft technical documentation and aircraft in-service data collated through Airbus’ open data platform, Skywise. Based on data analytics, Skywise-based applications will predict the required maintenance tasks for a given aircraft and optimise maintenance planning and maintenance task execution in order to minimize aircraft on ground time. Following HoF’s initial unveiling in 2016, Airbus affirmed the project in March 2017 with the Temasek Polytechnic education institution in Singapore, and is co-funded by the Singapore Economic Development Board and by Airbus. [Infographic link](#)

10) Airbus’ subsidiary Metron wins air traffic flow management contract from Civil Aviation Authority of Singapore
The Civil Aviation Authority of Singapore (CAAS) has awarded Metron Aviation, a subsidiary of Airbus, an Air Traffic Flow Management (ATFM) system contract. This system will be located at the Singapore Air Traffic Control Centre (SATCC). Metron will be responsible for the design, supply, delivery, installation, integration, testing and commissioning of the ATFM System over a 23-month period and a 10-year after sales support service beginning after initial system acceptance. Metron will supply its “Harmony” flagship ATFM automation product for air navigation service providers. For the project, Metron Aviation is teamed with Singapore Technologies Electronic Limited, which will provide in-country services to include acquisition, storage, installation and maintenance of the primary equipment, as well as spare parts, for the duration of the contract.

11) Airbus has been testing and using the SLS (Satellite Landing System) and you aviation tekkies need to get up to speed on this one. Ew note that the final approach segment is equivalent to a ground-based ILS beam! Here is a great slide presentation of the technology and Airbus deserves a pat on the back on this one!
Boeing announced services orders valued at more than $900 million that will enable carriers and partners to excel in today’s competitive airline environment. “Boeing is serious about helping customers optimize the performance of their fleets and reduce operational costs throughout the lifecycle,” said Stan Deal, president and CEO of Boeing Global Services. “Predicted growth for aerospace services in the Asia Pacific brings opportunities to partner with local industry to understand the region’s greatest needs, invest in new capabilities to meet those needs, and then bring them to market quickly.”

Today’s agreements stretch across Global Services’ four capability areas, including parts; engineering, modifications and maintenance; digital aviation and analytics; and training and professional services. Regional agreements announced today include in part:

- **All Nippon Airways** signed a contract for 36 landing gear exchanges for the 787.
- **China Southern Airlines and Guangzhou Aircraft Maintenance Engineering Company Limited (GAMECO)** signed an agreement to develop service capabilities for the Boeing Global Fleet Care portfolio, as well as enhanced component and composite repair capabilities.
- **Malaysia Airlines** signed an agreement for 48 landing gear exchanges for the Next-Generation 737. Through the program, operators receive an
overhauled and certified landing gear from an exchange pool maintained by Boeing, with stocked components and supporting parts shipping within 24 hours.

• **Nippon Cargo Airlines** signed a five-year agreement to renew Jeppesen charting and electronic flight bag services to optimize navigation and flight operations across their 747 fleet.

• **Royal Brunei Airlines** signed an agreement for five 787-8 overhead flight crew rest retrofits. The modifications, to be completed at Boeing Shanghai, will allow the carrier to fly the 787-8 airplanes on long-haul routes, providing increased operations flexibility to the fleet and operator.

• **SilkAir** signed an agreement to receive fleet material services for 54 of its 737 MAX and Next-Generation aircraft. Fleet material services include Component Services Program, Integrated Material Management and Customer Furnished Parts, providing the customer with a centralized supplier of parts.

• **Singapore Airlines** signed a contract to use Electronic Logbook on its 777 and 787 fleet. As a Boeing electronic flight bag app, the Electronic Logbook replaces paper logbooks with digital records that improve operational efficiency and reliability, reducing schedule interruptions.

• **Singapore’s Defense Science and Technology Agency** signed an agreement to engage in collaborative research and experimentation activities, powered by Boeing AnalytX.
Worldwide agreements announced include:

- **Alaska Airlines** signed an agreement to renew Jeppesen Flight Planning for its 737 fleet.
- **Biman Bangladesh Airlines** has expanded its use of Boeing’s Component Services Program by adding the service to support induction of new 787 aircraft that will enter its fleet in August this year, in addition to expanding and extending current component service coverage of its existing 737 and 777 fleets. With this service extension, Biman is on CSP support for all three of its airplane models.
- **DHL** has ordered one 767-300ER Boeing converted freighter. Boeing converted freighters carry high-density cargo on long-range routes, as well as e-commerce cargo on domestic and regional routes. **Honeywell Aerospace** signed a contract extending Aviall’s product support agreement as the exclusive distributor for Honeywell Aerospace through 2022, covering interior and exterior lighting equipment for all commercial aftermarket product sales. Products covered include indicators, annunciators and other components used on commercial aircraft.
- **Lufthansa Group** signed an agreement for 25 landing gear exchange and overhauls across its 777-200F and 777-300ER fleets for AeroLogic, Lufthansa Cargo and Swiss International Airlines. The service eliminates the need for operators to contract, schedule and manage the overhaul process.
- **Parker Aerospace’s** Aircraft Wheel & Brake Division signed a five-year master distributor agreement with Aviall for its Cleveland Wheels & Brakes product line.
Aviall will forecast, warehouse and market through its network, including Parker AWB’s former network of direct distributors.

- **Tianjin Air Capital** signed a contract with AerData for Secure Technical Records for Electronic Asset Management, a tool that transforms operations by replacing paper documents with digital ones, for a fleet of more than 50 aircraft.

- **Tunisair** signed a contract to integrate Jeppesen Aviator services on iPad into its flight operations, reducing pilot time spent on data entry and accessing individual apps.

**Boeing Reports Record 2017 Results and Provides 2018 Guidance**

CHICAGO, Jan. 31, 2018 /PRNewswire/ --

**Fourth-Quarter 2017**

- Record operating earnings of $3.0 billion with operating cash flow of $2.9 billion on strong performance

- GAAP EPS of $5.18 and core EPS (non-GAAP)* of $4.80 on strong deliveries, performance and tax reform

**Full-Year 2017**

- Record operating cash flow of $13.3 billion; repurchased 46.1 million shares for $9.2 billion

- Revenue of $93.4 billion reflecting record 763 commercial deliveries

- Backlog remains robust at $488 billion, including record 5,864 commercial aircraft
• Cash and marketable securities of $10.0 billion provide strong liquidity

**Outlook for 2018**

• Operating cash flow expected to increase to approximately $15.0 billion

• Revenue guidance of between $96.0 and $98.0 billion reflects commercial deliveries of between 810 and 815

• 2018 GAAP EPS of between $15.90 and $16.10; core EPS (non-GAAP)* of between $13.80 and $14.00

Boeing, GECAS, Travel Service Celebrate First 737 MAX Delivery

*Airplane's improved fuel-efficiency and range will help Czech Republic's largest carrier grow its network*

PRAGUE, Feb. 1, 2018 /PRNewswire/ -- Boeing [NYSE: BA], GE Capital Aviation Services (GECAS) and Travel Service, the largest carrier in the Czech Republic, celebrated the delivery of the airline's first 737 MAX airplane.

"We are pleased that Travel Service is among the first airlines to include 737 MAX into its fleet," said Roman Vik, Chief Executive Officer Travel Service. "As Travel Service is dynamically expanding and growing, the new Boeing 737 MAX airplane will fully support our ambitious development plan and competitive advantage. Thanks to a new modern fleet, Travel Service will be able to launch direct flights to new destinations and enhance the travel experience of our customers."

Travel Service is leasing the airplane – a more fuel-efficient, quieter, and longer-range version of the 737 jet –
from GECAS, the commercial aircraft leasing and financing arm of General Electric. "GECAS is delighted to further strengthen its business relationship with Travel Service by delivering the airline’s first Boeing 737 MAX 8 airplane. GECAS has been a partner with Travel Service since its inception with five 737-800s currently on lease to this dynamic airline," said Felix McArdle, Senior Vice President, GECAS Sales & Marketing. "The delivery of this latest-technology airplane, the first of 10 that will be leased by GECAS to Travel Service, will enable the airline continue to grow profitably and in an environmentally friendly way. GECAS wishes Travel Service every success with these advanced new airplanes."

"Travel Service is one of the fastest growing operators in the region and we are delighted that it is adding the 737 MAX to its all-Boeing fleet, boosting capacity for its upcoming summer season schedule," said Monty Oliver, vice-president of Europe Sales, Boeing Commercial Airplanes. "The 737 MAX will provide Travel Service with unmatched reliability and a premium on-board experience for its passengers."

About Travel Service: Travel Service is the largest airline company in the Czech Republic. It operates regular flights under the SmartWings brand, along with charter flights and private flights in the business jet category. Travel Service airplanes fly to more than 400 airports in four continents. Travel Service also operates in Slovakia, Poland and Hungary, where the company has its subsidiary companies.
**Boeing** will pay nearly $600 million of performance bonuses to Washington state employees after they delivered a record number of airplanes in 2017. The payout will be the largest in Boeing's 101-year year history, the Chicago-based jet maker said. Boeing paid $169.7 million in bonuses to Washington state workers last year.