

Boeing in Turkey

The Boeing Company has maintained a long-standing and mutually beneficial relationship with Turkey since the mid-1940s. Boeing is a provider of commercial jetliners to Turkish airlines, a supplier of defense products to the Turkish armed forces, and a significant and trusted partner of the Turkish aerospace industry. Boeing is also a good corporate citizen of Turkey.

Ayşem Sargin was named managing director of Boeing Turkey in September 2015. She is based at the Boeing Turkey headquarters in Ankara and reports to Bernard Dunn who joined Boeing in 2012 as president of Boeing Turkey and North Africa. In 2015, Boeing expanded Dunn's leadership role to include Middle East, North Africa and Turkey (MENAT). Dunn reports to Marc Allen, president of Boeing International.

In 2017, Boeing launched the National Aerospace Initiative to support the long-term growth and competitiveness of the Turkish aviation and aerospace industry in conjunction with the targets set by Turkey's Vision 2023. This initiative outlines a strategic framework that aligns Boeing investment and programs with its stakeholders and business partners around four key areas: industrial development, technology acceleration, services collaboration and advanced-skill training.

Business Activities in Turkey

Boeing Commercial Airplanes

Boeing works closely together with Turkish carriers to provide the right airplane for the rapidly expanding Turkish market. Boeing has directly delivered more than 240 new airplanes to Turkish carriers since 1968.

Boeing and Turkish Airlines (THY) share a long history that began in 1945 with the arrival of THY's first DC-3/C-47 airliners. THY entered the jet age in the late 1960s, when the airline began operating DC-9, DC-10 and Boeing 707 airplanes. Over the years, Turkish carriers have also flown 727, 757, MD-80 and, of course, the most modern 737 and 777 airplanes. Turkish Technic, a subsidiary of THY, is a world-class maintenance center for Boeing 737 airplanes, with certifications from regulatory authorities throughout the region and beyond.

Boeing has also developed mutually beneficial relationships with key customers in Turkey such as SunExpress (the joint venture of Turkish Airlines and Lufthansa) and Pegasus Airlines.

Boeing Defense, Space & Security

Boeing's involvement with the Turkish armed forces dates back to the 1970s, when McDonnell Douglas delivered the first F-4 Phantom fighter aircraft to the Turkish Air

Force. Currently, Turkey has 157 F-4 aircraft in its inventory and continues to operate those fighters.

In the 1980s, the Turkish Navy took delivery of its first Harpoon anti-ship missiles and continues to upgrade and procure additional Harpoon missiles and their support systems.

One of the best known Boeing products in Turkey is the Airborne Early Warning and Control (AEW&C) system, which provides airborne surveillance and command, control and communications for tactical and air defense forces. In 2002, the Republic of Turkey signed a contract for four AEW&C systems with multirole electronically scanned array radar. The platform is based on the Boeing Next-Generation 737-700 and features 21st-century avionics, navigation equipment and flight deck. Known as the Peace Eagle program, this procurement is one of the highest defense expenditures by the Turkish Republic under one agreement. Boeing delivered the first three Peace Eagle AEW&C aircraft to Turkish armed forces in 2014 and the fourth in 2015.

Boeing has undertaken a project to provide periodic depot-level maintenance for the KC-135 tanker aircraft of the Turkish Air Force. This important project also includes training Turkish Air Force personnel to be able to provide these services in the future.

In 2016, the governments of Turkey and the United States finalized the sale of 11 CH-47F Chinook helicopters through government-to-government channels. The initial order included 6 CH-47F Chinooks, which Boeing delivered in 2016 with the final delivery taking place in November 2016. The country also ordered 5 more Chinooks, bringing its total to 11 to be delivered through 2019.

Suppliers and Partners in Turkey

Boeing cooperates with the Turkish aerospace industry in commercial and military aviation programs, providing the right solutions and sharing knowledge through technology cooperation. Between Turkish Aerospace Industries (TAI) and an increasing number of private sector suppliers, Boeing works with a broad network of partners on Boeing programs in Turkey and also outside of Turkey. With more than 20 suppliers in Ankara, Istanbul, Izmir, Bursa, Kayseri and Eskişehir, TAI is a good example of this network. In April 2018, TAI was recognized as “Supplier of the Year” (Alliance Award category) for its contributions to Boeing's success by sharing risk and supporting long-term relationships that promote and advance the company's strategic objectives.

Several Turkish defense companies work for the Peace Eagle program, including Selex ES, TAI, THY, Havelsan, Ayesaş and Aselsan. Other defense programs involving Turkish industry are the NATO AWACS midterm upgrade and the 737 AEW&C aircraft, called Peace Eye. TAI won a contract for fabrication and assembly of parts for the 737-700 Peace Eye for the Republic of Korea Air Force. Also, Fokker Elmo manufactures wire harnesses for a variety of platforms in its Izmir facility.

On commercial aviation programs, TAI and Kale Aero have participated in all Boeing commercial airplanes programs since 1997. In addition, PFW Turkey provides parts for the 787 program, and Turkish Technic provides technical and maintenance services for several Boeing commercial airplane models.

Boeing support facilitated the establishment of new facilities in free trade zones: PFW (ESBAŞ), Fokker Elmo (ESBAŞ) and Kale (DESBAŞ). Key Boeing international suppliers — including PFW, Fokker Elmo, Alenia and Spirit AeroSystems — are also investing and placing work packages in Turkey.

Boeing recently launched its Turkey Supplier Development Program, one of the key components of the National Aerospace Initiative. The program aims to increase Turkish industry's share of the global aerospace supply chain. It benefits not only current Boeing suppliers, but also small- and medium-sized aerospace businesses that want to be part of global aerospace supply chains and companies in complementary industries that aspire to become aerospace companies.

Boeing partners with several universities in Turkey to foster aerospace innovation. Our university programs include research, education and advanced skills training.

- Research: Boeing and Istanbul Technical University (ITU) collaborate on joint research and development projects, such as an advanced cabin air filtration system.
- Education and advanced skills training:
 - Boeing provides scholarships to students at the ITU Faculty of Aeronautics and Astronautics to sustain a world-class aerospace talent pipeline in Turkey
 - Boeing provides faculty grants for ITU Faculty of Aeronautics and Astronautics, with the aim to advance the aerospace engineering curriculum toward world standards
 - Boeing and Middle East Technical University (METU) collaborate on advancing the university-level capability in Vertical Take-off and Landing (VTOL) Technology through advanced student projects and competitions
 - Boeing works with the Entrepreneurship Foundation to unleash entrepreneurial potential in aerospace among university students through the Airpreneurs Program
 - Boeing provides internship opportunities for aspiring Turkish university students in its Seattle, Washington, facilities

Boeing Presence in Turkey

Boeing operates from three main locations in Turkey: Ankara, Istanbul and Konya. The in-country headquarters are located in Ankara; the Istanbul team leads the commercial aviation operations, including the technical support for Boeing commercial airliners; the Konya team is in charge of the Peace Eagle program. Boeing companywide

procurements from Turkish industry currently exceed \$160 million a year and its programs currently support nearly 2,500 jobs in Turkey.

With the National Aerospace Initiative, Boeing will grow its footprint through new investments in Turkey. The company plans to establish a presence in the areas of engineering, technology, and pilot and technician training, as well as several collaboration mechanisms in services and supply chain.

Community Engagement

Boeing believes that the measure of a company is not only the quality of its products and services but also the strength of its partnership with the communities where it does business.

Boeing's community projects in Turkey are mainly in the areas of education, arts, culture, health and human services.

Projects

- Education: 146 projects in 40 cities.
Supporting science, technology and engineering education, entrepreneurship programs, early learning and K–12 after-school education support activities, vocational training activities, health education and university curriculum enrichment initiatives; providing scholarships to students; establishing and supporting computer and science labs; building and renovating school facilities; and donating books and sports equipment.
- Arts and culture: 57 projects in four Turkish cities and one project in Washington state.
Providing sponsorship of music festivals, concerts, research and excavation projects, and cultural activities.
- Health: 21 projects in seven cities.
Renovating hospitals, donating medical equipment for various hospitals and supporting health education and training.
- Human services: Providing financial assistance to 13 projects in two cities.

International Relief Flights

After the devastating earthquake of August 1999, Boeing, in cooperation with Turkish Airlines, brought a medical team to Turkey from Medical Teams International equipped with enough medical supplies to treat 10,000 people. On the same flight were 3.5 tons of relief materials. In the same month, 100 kidney dialysis machines donated by Northwest Kidney Center were brought to Istanbul on a Turkish Airlines flight. Boeing also donated \$50,000 as well as 12 dialysis machines to the Istanbul University Capa Medical School. The Istanbul Medical School Prof. Dr. Muhlis Ozen Dialysis Unit also

was renovated with contributions from Boeing and Turkish Airlines. In addition, Boeing donated an additional \$250,000 to Turkey as earthquake relief.

Educational Support

Boeing corporate citizenship initiatives focus on education programs to support Turkey's growing aerospace industry. These programs cover a wide range of areas, from early learning and K–12 to vocational training and entrepreneurial training. Boeing began its support of education shortly after the 1999 earthquake. Since then, Boeing Turkey has positively affected more than 140,000 students through its educational resources programs.

Some examples of Boeing's programs include the establishment of a composite laboratory at Ege University in Izmir and the construction of an aircraft maintenance mechanical workshop at a vocational high school in Izmir. The company also signed a partnership protocol to support aircraft maintenance training with Turkey's Ministry of National Education and Anatek Technology Transfer Industry and Trade Company in 2016. The protocol aims to develop highly qualified technical human resources required in aircraft maintenance and repair services with new distance-education technologies. In collaboration with Anadolu University, Boeing also supported vocational training of teachers and students at the aircraft maintenance vocational high schools across the country.

Boeing programs reach out to students from different age groups. Working together with local nonprofit organizations such as Mother Child Education Foundation (AÇEV), Educational Volunteers Foundation of Turkey (TEGV) and Science Heroes Association, Boeing currently supports early learning and parental education, K–12 education, and science, technology and engineering education projects for preschool, elementary and middle school students across Turkey.

Boeing also supports initiatives to enhance entrepreneurial and employability skills of the university youth in Turkey, in collaboration with Turkish Entrepreneurship Foundation. In 2017, Boeing and the Turkish Entrepreneurship Foundation started a new Airpreneurs program, which aims to inspire university students on aerospace entrepreneurship through "hackathons" in several universities in Turkey. Additional Boeing internships and scholarships constitute attractive platforms for aspiring university students in Turkey.

Archeological Excavations

After supporting the archeological digs at Gordion for several years, Boeing became one of the main sponsors of the Çatalhöyük excavations in Konya, an important 9,000-year-old Neolithic site. This site was recently recognized as World Heritage by UNESCO. Boeing has also been supporting the archeological excavation in Kalehöyük, which is located in the Kaman district of Kirşehir, and the Kaman Kalehöyük Archeology Museum. Boeing began supporting Bathonea excavations around the Istanbul area in 2014.

Chronology — Boeing and Turkey

1945	First DC-3 joins Turkish Airlines (THY) fleet.
1965	Boeing Services International provides base support services for U.S. military personnel and installations.
1968	THY receives its first new DC-9 airplane.
1970	THY purchases its first Boeing airplane, a Boeing 707.
1972	THY receives its first new DC-10 airplane.
1974	Boeing delivers THY's first 727.
1988	Istanbul Airlines takes delivery of its first Boeing 737 in Turkey.
1991	THY receives its first Boeing 737.
1997	THY places an order for 26 Boeing 737-800s.
1998	Boeing begins sponsoring the excavations at Çatalhöyük. Boeing participates in the first International Civil Aviation and Export Equipment Fair (AIREX). THY takes delivery of its first six Next-Generation 737-800s.
1999	Boeing opens its office in Ankara. Boeing sends a relief flight to Turkey following the earthquake in August. Boeing participates for the first time in the International Defense and Exhibition Fair (IDEF).
2000	Turkish Aerospace Industries (TAI) begins producing flight deck panels and wingtips for the Next-Generation 737 airplane. The dialysis unit of the Istanbul Medical School is modernized using contributions from Boeing and THY. Boeing purchases 12 dialysis machines and donates \$50,000 for the unit.
2001	Boeing signs a contract to perform periodic depot-level maintenance on the Turkish Air Force's KC-135 tanker aircraft.

<p>2002</p>	<p>Boeing begins sponsoring the International Ankara Music Festival.</p> <p>Boeing and Turkey sign a \$1 billion contract for an Airborne Early Warning and Control system (AEW&C). The international Boeing-led team responsible for the program includes Northrop Grumman Electronic Systems and several major Turkish companies, including TAI and Havelsan. The contract calls for four 737 AEW&C aircraft plus a ground-support segment for mission crew training, mission support and system maintenance support.</p> <p>Pegasus Airlines takes delivery of its first Boeing 737-800 with blended winglets.</p> <p>THY is named an approved installation center for manufacturing blended winglets.</p> <p>SunExpress orders four Boeing 737-800s with winglets manufactured by THY.</p>
<p>2004</p>	<p>THY places an order for 15 firm and 8 optional Next-Generation 737-800s.</p> <p>Turkey's first Peace Eagle aircraft, a 737-700, rolls off the production line at the Commercial Airplanes facility in Renton, Wash. Modifications will transform it into an AEW&C platform. Turkey orders four 737 AEW&C aircraft.</p>
<p>2005</p>	<p>THY exercises an option for eight Next-Generation 737-800s.</p>
<p>2006</p>	<p>A 737-800 becomes the 100th airplane of THY and is delivered with a special livery to celebrate the occasion.</p> <p>Sky becomes the first European customer of the 737-900ER, with three firm and two optional orders.</p>
<p>2007</p>	<p>Aviation Partners Boeing, a joint venture between Aviation Partners and Boeing that manufactures blended winglets for Boeing, receives an order from THY for 24 units for its 737-800s.</p> <p>Boeing conducts a successful first test flight of a 737 AEW&C aircraft for Turkey's Peace Eagle program.</p> <p>THY purchases Maintenance Performance Toolbox software to improve efficiency of its maintenance operations.</p>

2008	<p>Saga Airlines makes its first order for two Boeing 737-800s with blended winglets.</p> <p>PFW and Fokker Elmo begin production for Boeing programs at new manufacturing facilities in Izmir.</p> <p>Boeing successfully completes flight of the first AEW&C Peace Eagle aircraft modified in Turkey by TAI.</p> <p>Leased 777-300ERs join the THY fleet for the first time.</p>
2009	<p>THY orders five 777-300ERs.</p> <p>SunExpress orders six 737-800s.</p> <p>THY orders seven additional Boeing 777-300ERs, bringing its total 777 300ER orders to twelve.</p> <p>Boeing celebrates the 10th anniversary of its headquarters in Ankara.</p>
2010	<p>THY orders 20 Next-Generation 737 airplanes (10 737-800s and 10 737-900ERs).</p> <p>Boeing and Havelsan complete the installation of mission simulator and mission support center hardware for the Peace Eagle AEW&C program.</p> <p>Boeing delivers the first 777-300ER directly purchased to THY.</p>
2011	<p>THY exercises options for 15 Next-Generation 737 airplanes (10 737-800s and 5 737-900ERs).</p>
2012	<p>THY orders 15 more 777-300ERs worth \$4.7 billion at list prices.</p>

<p>2013</p>	<p>THY takes its 100th direct delivery from Boeing, a 737-800.</p> <p>Boeing announces a memorandum of understanding with Istanbul Technical University (ITU) regarding joint research and development programs.</p> <p>Kale Aero is the first Turkish supplier recognized with the Boeing Performance Excellence Award (BPEA) for its outstanding support through nondestructive testing, coating and painting, and structural parts manufacturing of fuselage and wing components.</p> <p>Boeing and THY finalize order for 50 737 MAX and 20 Next-Generation 737 airplanes valued at \$6.9 billion.</p> <p>THY finalizes an order for five additional 777-300ERs.</p> <p>Boeing opens its new office in Istanbul.</p>
<p>2014</p>	<p>Boeing delivers the first, second and third Peace Eagle AEW&C aircraft to Turkish armed forces.</p> <p>SunExpress places the largest order in its history for 15 737 MAX and 25 Next-Generation 737 airplanes valued at more than \$3.8 billion.</p> <p>Boeing delivers first airplane featuring galleys from Turkish Cabin Interiors.</p> <p>THY finalizes an order for 15 additional 737 MAX 8s.</p>
<p>2015</p>	<p>THY exercises options for 10 additional 737 MAX airplanes.</p> <p>Five additional CH-47Fs are procured by the Turkish government in addition to the initial six.</p> <p>Boeing delivers the fourth and final Peace Eagle AEW&C aircraft to the Turkish armed forces.</p> <p>THY takes delivery of its 125th Boeing airplane.</p>
<p>2016</p>	<p>Boeing, Turkish Ministry of National Education and Anatek sign a partnership protocol to support aircraft maintenance training.</p> <p>SunExpress exercises options for 10 additional 737 MAX airplanes.</p> <p>Boeing delivers a record number of airplanes to Turkey: six 777-300ER and twenty 737-800, totaling 26 deliveries.</p> <p>THY's 100th and Boeing's 6,000th Next-Generation 737 is delivered in July 2016.</p>

	The first six CH-47F Chinooks are delivered to Turkey, making the country the 19 th customer and eighth NATO country to field the aircraft.
2017	<p>Boeing and the Turkish government announce the Boeing Turkey National Aerospace Initiative, designed to support the growth of the Turkish aerospace industry and strengthen Boeing's presence in the country.</p> <p>Boeing launches the Turkey Supplier Development Program to increase Turkish industry's share of the global aerospace supply chain.</p> <p>Boeing launches the Airpreneurs program in Turkey to unleash the entrepreneurial potential in aviation among the university students.</p>
2018	<p>Turkish Airlines announces a firm order for 25 787-9 Dreamliners with options for five more airplanes.</p> <p>TAI is recognized as "Supplier of the Year" (Alliance Award category).</p>

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