BUILDING THE FUTURE TOGETHER

Boeing in Africa

Boeing’s heritage in Africa dates back nearly 75 years. Since the introduction of the jet airplane, Boeing planes have formed the backbone of the continent’s commercial fleet. With more than 60 airline customers operating about 500 Boeing airplanes throughout Africa, Boeing represents nearly 70% of the airplane market currently in service across the continent.

The company’s military aircraft legacy in Africa goes back to World War II, when Boeing heritage company Douglas Aircraft established a top-secret aircraft maintenance facility in Ethiopia, “Project 19,” to serve Allied air commands in North Africa.

Currently, Boeing has offices in Johannesburg, South Africa, in addition to field service representatives with commercial customers across the continent.

OUR COMMITMENT AND PARTNERSHIP

- **70%** of the in-service airplane market across Africa is represented by Boeing.
- **1,030** new airplanes will be needed by African carriers over the next 20 years.
- **30** Boeing employees and field service representatives in Africa.
- **$41M** in work value generated by five supplier partnerships.
- **2020** Royal Morocco Air Force signed an agreement for 24 AH-64E Apache helicopters.
- **3** Cameroon, Kenya, and Tunisia operate Insitu ScanEagle systems.

INVESTMENTS

Boeing investments in Africa have helped grow the local aerospace sector, creating jobs and driving innovation for mutual benefit.

- **2013** Boeing and South African Airways produced Africa’s first tobacco-based biofuel.
- **$5M** investment in the first Ka-band antenna system facility in South Africa.
- **12-year** partnership with Digital Data Divide (DDD), Kenya to support online delivery of Work-Study Program.

COMMUNITY ENGAGEMENT

Boeing is focused on providing systemic improvements in education and economic empowerment for those in poverty, to develop 21st-century skills such as digital employability, entrepreneurship and STEM.

- **$21.1M+** investment to improve education and alleviate poverty in Africa since 2008.
- **61,345** Ethiopian girls educated through the Link Community Development program.
- **70+** humanitarian flights delivering aid to Africa through nonprofit partners.

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BOEING IN AFRICA

Boeing Commercial Airplanes

With a legacy of over seven decades in Africa, Boeing has played a vital role in the continent’s aviation industry. This relationship continues to strengthen as Boeing delivers, including the 787 Dreamliner, 777 and 737 MAX, power the growth of the modern-day African airline fleet.

Grounded by vast natural resources and an expanding young workforce, Africa is forecast to see strong traffic and airline demand growth in the next two decades. Boeing forecasts that African carriers will require 1,030 new aircraft delivered over the next 20 years, 75% for growth of the current fleet. Single-aisle airplanes will constitute 72% of the projected new deliveries. African airlines are also forecast to need nearly 250 twin-aisle aircraft for longer-range and higher-capacity growth markets.

In October 2019, Boeing and Ethiopian Airlines signed a strategic MOU to help position Ethiopia as Africa’s aviation hub. This agreement includes four areas of partnership: Industrial development, advanced aviation training, educational partnership, and leadership development.

Boeing also signed a MOU to help Air Tanzania advance through capacity Building. This will help in advancing Tanzania’s aviation industry especially in the key areas of partnership: Industrial development, advanced aviation training, educational partnership, and leadership development.

Boeing Defense, Space & Security

The Royal Moroccan Air Force (RMAF) currently operates the CH-47 Chinook. In 2015, the US Army delivered three surplus CH-47D Chinooks to the RMAF. Morocco has 24 AH-64 Apache helicopters on order. In 2001, Boeing delivered a 737-700 Boeing Business Jet (BBJ) to the South African Air Force, making it the first BBJ based in South Africa.

The Boeing defense presence in Africa also includes the Insitu ScanEagle system in Cameroon, Kenya and Tunisia.

Boeing Research & Technology

In 2003, Boeing inaugurated the first worldwide Ka-band antenna system and tracking facility at the Council for Scientific and Industrial Research (CSIR) Satellite Applications Centre, located northwest of Johannesburg, South Africa. Boeing invested $5 million to fund the entire project, that the company has worked with the CSIR since 2007 to develop a broadband roadmap that aligns with the mutual interests of South Africa and the aerospace industry. In 2013, a memorandum of understanding was signed to develop opportunities to incorporate titanium powder into manufacturing processes and aerospace products.

Industrial Partnerships

Boeing works with five suppliers across Africa, with partnerships valued at approximately $41 million.

**FLEETS**

<table>
<thead>
<tr>
<th>Country</th>
<th>Aircraft Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>Algeria</td>
<td>Air Algérie: 32 737s, Tassil Airlines: 7 737s</td>
</tr>
<tr>
<td>Angola</td>
<td>TAAG Angola Airlines: 7 737s, 8 777s</td>
</tr>
<tr>
<td>Burkina Faso</td>
<td>Liza Transport International: 1 737</td>
</tr>
<tr>
<td>Cameroon</td>
<td>Comor: 2 737s</td>
</tr>
<tr>
<td>Cape Verde</td>
<td>Cabo Verde Airlines: 3 757s-200s</td>
</tr>
<tr>
<td>Chad</td>
<td>Air Corp: 1 737</td>
</tr>
<tr>
<td>Congo</td>
<td>Conga Airways Conga: 1 737, 1 MD-80; Trans Air Congo: 5 737s</td>
</tr>
<tr>
<td>Congo (Democratic Republic)</td>
<td>Air Force: 1 737, 1 DC-8; Gomair: 2 737s; Serve Air: 5 737s, 4 737s; Trans Air Congo Service: 2 DC-8s</td>
</tr>
<tr>
<td>Djibouti</td>
<td>Djibouti: 1 727, 1 777</td>
</tr>
<tr>
<td>Egypt</td>
<td>EGYPITAIR: 29 737s, 6 777s, 6 787s; flyEgypt: 7 737s; Alexandria Airlines: 1 727, 1 777; AmaStar; Universal Airlines: 3 737s; AMC Airlines: 4 737s; Equatorial Guine: GEIBA Interalcontinental: 3 737s, 1 777</td>
</tr>
<tr>
<td>Mozambique</td>
<td>Linhas Aéreas Electronics (Ply) Ltd: 1 737 de Moçambique: 2 737s</td>
</tr>
<tr>
<td>Nigeria</td>
<td>Aero Contractors: 1 737s; Air Force: 1 737; Air Peace: 13 737s, 3 777s; Allied Air: 4 737s; Ark Air: 11 737s; Azman Air: 6 737s; Dana Air: 4 MD-80s, 3 737</td>
</tr>
<tr>
<td>Rwanda</td>
<td>RwandAir: 6 737</td>
</tr>
<tr>
<td>Senegal</td>
<td>Royal Air Maroc: 7 737s, 3 767 MAX 8; Morocco: Royal Air Maroc: 39 737s, 1 767, 9 787s</td>
</tr>
</tbody>
</table>
| South African Airways | South African Airways (SAA), Roundtable on Sustainable Biomaterials, Sunchem SA and SkyNRG developed biofuel from a tobacco plant. In 2016, SAA and low-cost carrier Mango celebrated Africa's first passenger flights using sustainable biofuel. In 2001, Boeing, Royal Air Maroc and Safan formed a joint venture, Morocco Aero Technical Interconnect Systems (MATIS) Aerospace, in Casablanca to manufacture wire bundles and harnesses. In 2008, Boeing expanded its wire harness procurement in Africa by working with Ethiopian Airlines to establish a new manufacturing facility at the airline's base in Addis Ababa. In 2021, Boeing collaborated with RSB to launch a roadshow aimed at exploring and advising Ethiopia's capacity to produce feedstock for use as Sustainable Aviation Fuel (SAF). Boeing is working with Ethiopian airlines to develop course material focused on aviation sustainability for the Ethiopian aviation academy in Addis Ababa to achieve their goal of being the leading aviation hub in Africa.

**Boeing Global Engagement**

Since 2006, Boeing has partnered with over 40 organizations in Africa, and invested over $12.1 million, to support systemic improvements in education, economic empowerment and the alleviation of rural poverty. Boeing, its airline customers and nongovernmental organizations collaborate through the Humanitarian Delivery Flight program to deliver medicine, medical equipment and educational materials to people in need. Over 70 humanitarian flights have been completed.

Some of Boeing’s other key projects:

- Renewed a 9-year partnership with Ubuntu Pathways in South Africa, that has supported both education and job training programs.
- **Think Young Coding Schools in Kenya, Rwanda and Ethiopia.** Girls are particularly encouraged to apply for the schools.
- 12-year partnership with Digital Divide Data (DDD) in Kenya to support online delivery of DDD’s core Work-Study Program.
- Partnership with Hand in Hand, Tanzania: training farmers in the Kilimanjaro region. 90% of the participants are women.
- Expanding partnership with Injaz-Junior Achievement into Africa through ‘Our Future - Tomorrow Innovators’ program.
- Continued partnership in Ethiopia with Link Community Development to educate young girls – over 61,000 girls educated to date.
- Other examples: partnership Leo Lagrange in Ivory Coast, and Ubuntu pathways in South Africa, supporting the most vulnerable groups in society.

**A HISTORY OF PARTNERSHIP**

- **1946** - Ethiopian Airlines begins service with five C-47 Skytrains from Boeing heritage company Douglas Aircraft
- **1958** - South Africa Airways becomes first African carrier to order the 707
- **1971** - Boeing launches the first worldwide Ka-band antenna system and tracking facility in South Africa
- **1984** - Ethiopian Airlines launch customer for the 767, sets a world distance record for commercial twin-Engines
- **2003** - Boeing delivers the first 767 to Royal Air Maroc and Safran
- **2005** - Ethiopian Airlines becomes the first African operator to order the 787 Dreamliner
- **2011** - Boeing partners with 43 Air School to offer pilot training program in South Africa
- **2013** - RwandaAir launches the Boeing Sky Interior on its 737-800
- **2017** - Kenya Airways becomes the first East African airline to operate the 777-300ER
- **2018** - Mauritania Airlines takes delivery of the first 737 MAX 8 by an African airline
- **2022** - Ethiopian Airlines orders 5 777F & signed an MOU to purchase 5 777-8F

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Fleet summary in Africa, including leased aircraft, as of Aug.22