



**“Africa’s potential is
Sky High – and the
airline industry is key!”**

-2016 World Economic Forum on Africa

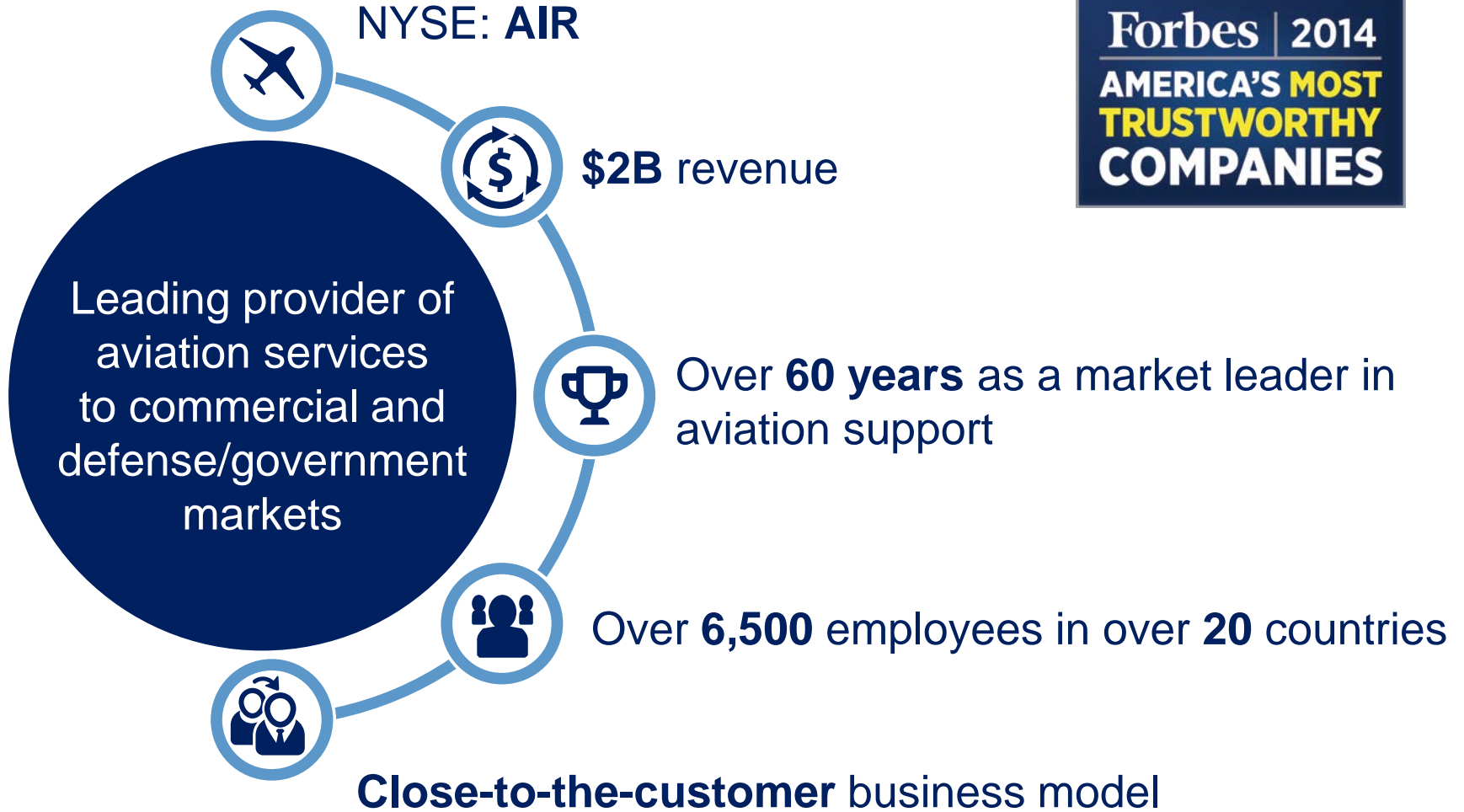


**#1 Largest MRO
Provider Worldwide**



Aviation Aftermarket Expert

Since 1955



Current

- ❖ **Vice President, Global Development** – Head of the Americas, Africas, and Emerging Markets

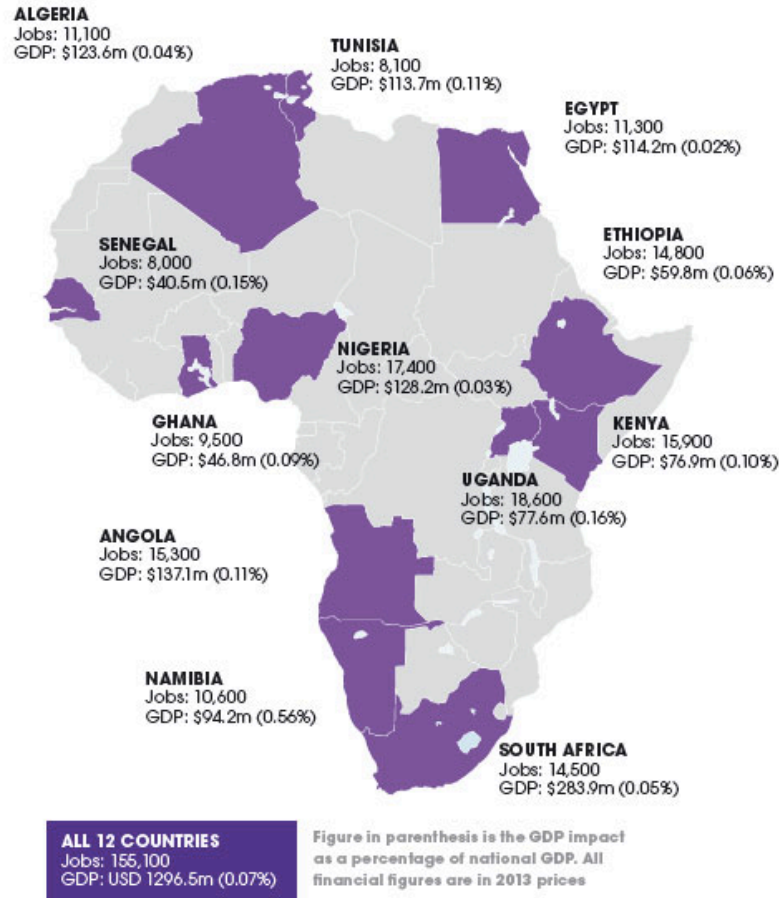
Past

- ❖ **International President** – Chinese Conglomerate
- ❖ **Investment Banker** – Goldman Sachs, JP Morgan
- ❖ **White House Aide** – Obama's Front Office
- ❖ **Technology Founder** – Successful \$Million Company
- ❖ **Author**

AFRICA is Liberalizing it's Skies and.....

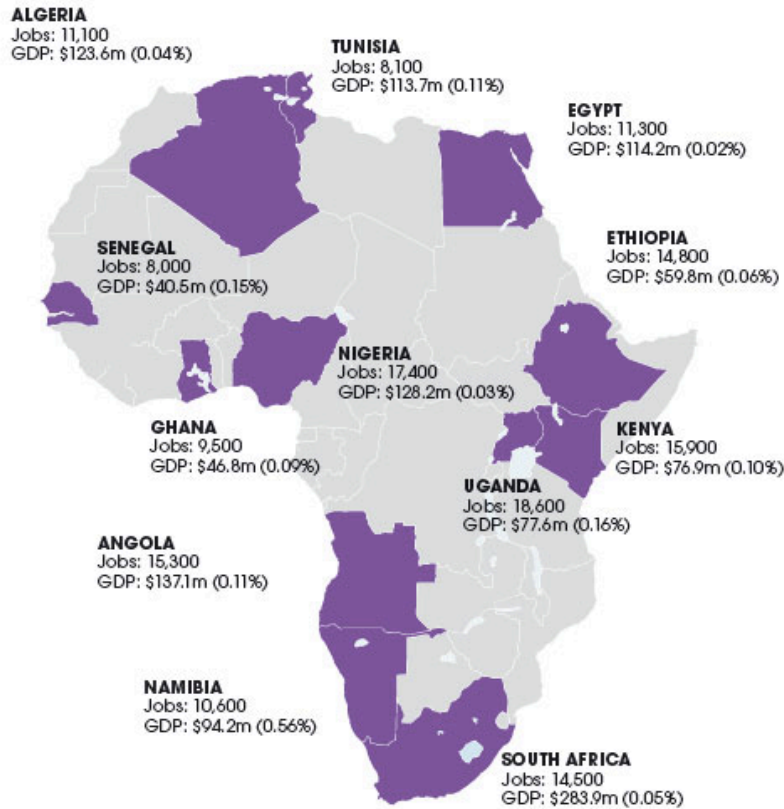
It has Real GDP Impact

Map of total economic impact on 12 countries stimulated by liberalization



Source: interVISTAS

Map of total economic impact on 12 countries stimulated by liberalization



ALL 12 COUNTRIES
Jobs: 155,100
GDP: USD 1296.5m (0.07%)

Figure in parenthesis is the GDP impact as a percentage of national GDP. All financial figures are in 2013 prices

Source: interVISTAS



Uganda

\$77.6M



Angola

\$137.1M



Nigeria

\$128.2M

AFRICA Aviation Market



Operators

116~



Avg Age of Aircraft

21 yrs

Avg Year Manufactured

1997



Industry

\$80B



Aircrafts in Africa

884+



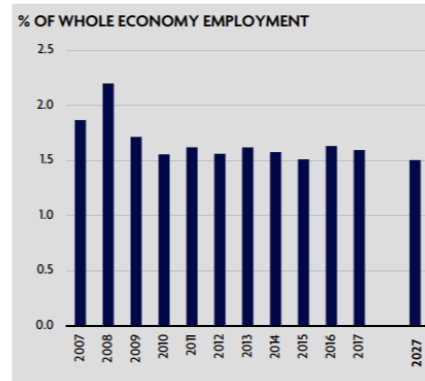
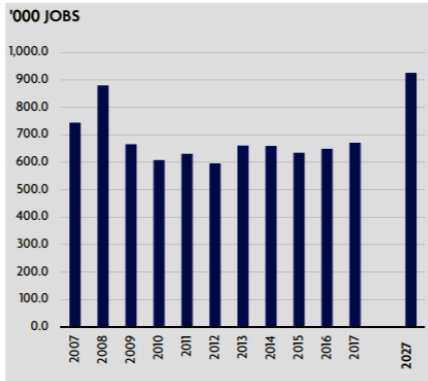
Africa Jobs

7,000,000

It has REAL employment impact.....

By 2027, Travel & Tourism will account for 926,000 jobs directly, an increase of 3.3% pa over the next ten years.

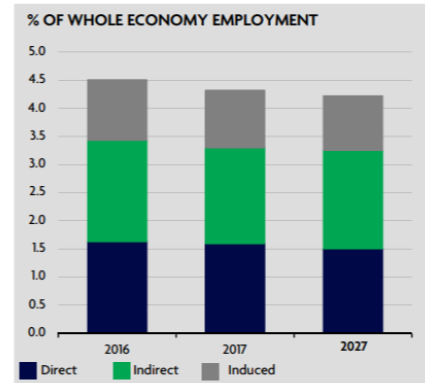
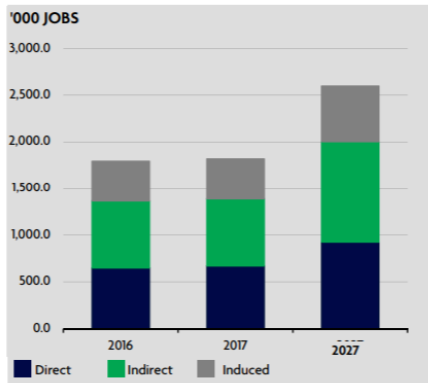
NIGERIA: DIRECT CONTRIBUTION OF TRAVEL & TOURISM TO EMPLOYMENT



The total contribution of Travel & Tourism to employment (including wider effects from investment, the supply chain and induced income impacts, see page 2) was 1,793,000 jobs in 2016 (4.5% of total employment). This is forecast to rise by 1.4% in 2017 to 1,818,500 jobs (4.3% of total employment).

By 2027, Travel & Tourism is forecast to support 2,598,000 jobs (4.2% of total employment), an increase of 3.6% pa over the period.

NIGERIA: TOTAL CONTRIBUTION OF TRAVEL & TOURISM TO EMPLOYMENT



Projection 2025



Aircrafts in Africa

3,000+

THE FUTURE



Africa is the New Frontier of Commercial Drones

The **world's first commercial drone delivery service** operates from a hill almost smack dab in the middle of Rwanda. A barbed wire fence surrounds a field, a white tent, and a control tower. From here, Zipline, a San Francisco-based robotics company, delivers blood by drone to almost half of all Rwanda's blood transfusion centers. Orders are made online, by text, phone, or WhatsApp. A technician sits in a refrigerated room where the blood—specifically red blood cells, platelets, plasma, and cryoprecipitate—are stored, communicating with his team over Slack. **An order has come in for a hospital about two hours away by car. The drone delivers the package in 20 minutes.**

Aviation Jobs – Mechanics, Technicians, Engineers



Demand without Supply

Mechanics are retiring **faster than** they are **being replaced**.

2% New entrants make up 2% of the population annually

30%  Of the workforce is at or near retirement age

Graduate Demographics

80%

Average graduation rate for an A&P student

24%

AMTS graduates are veterans

35%

Were in high school or attended high school within 12 months of enrollment

71%

Had a job upon graduation

40%

Took a job outside the school's geographic location

27%

Mechanic population age 64 & above

51yrs

Average age of an FAA mechanic

\$19.29

The typical starting average hourly wage for an AMTS alumna

\$28.98

The Bureau of Labor Statistics reports median pay for all aircraft mechanics & technicians (both certificated & non-certificated)

18%

Boeing predicts that commercial aviation alone will require 648,000 new technicians by 2036, with 18% of that demand, or 118,000, coming from North America

9%

Oliver Wyman forecasts that by 2027 U.S. demand for maintenance technicians will outstrip supply by 9%

Sources: FAA AMTS Database, FAA Airmen Certification Branch & ATEC AMTS Survey

Solutions



