THE INAUGURAL Airfinance events A FINANCE CONFERENCE

Michael B. Cox, Vice Chairman Seabury Group

Africa: Aviation's Next Frontier



Agenda



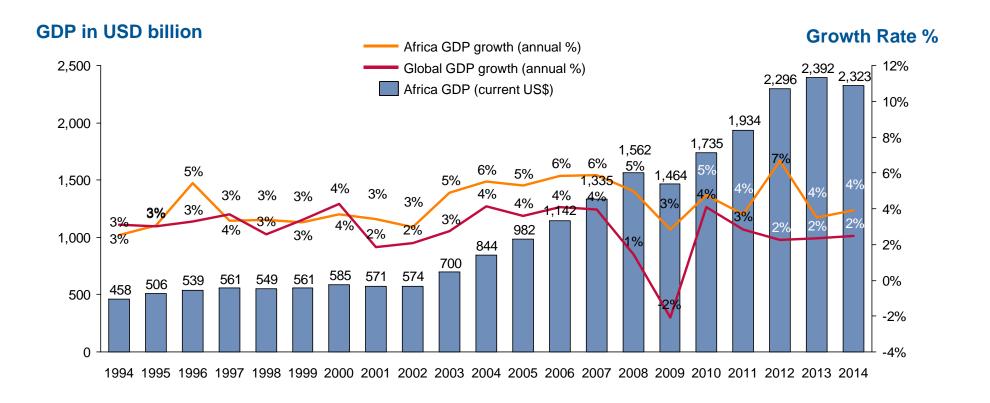
African Economic Outlook

- Airlines in Africa
- Aviation financing in Africa
- Opportunities and challenges

Economic trends



Africa's gross domestic product (GDP) has been growing consistently for the last twenty years, outperforming the global economy

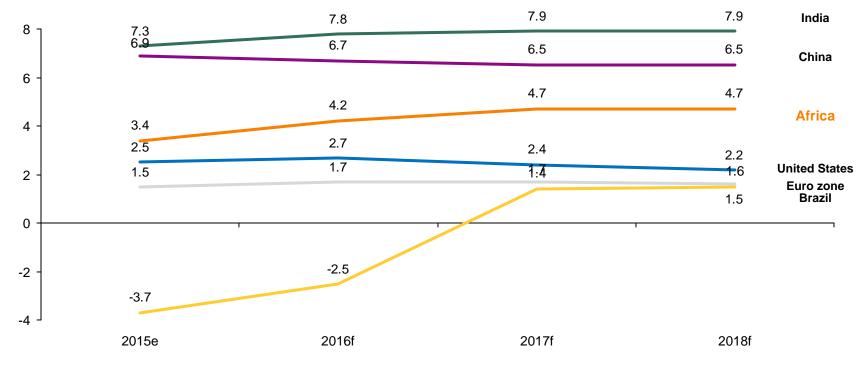


Source: World Bank and Seabury Analysis

Economic trends



Africa is one of the world's top economic growth performers and is expected to remain strong in the coming years



GDP growth rate (%)

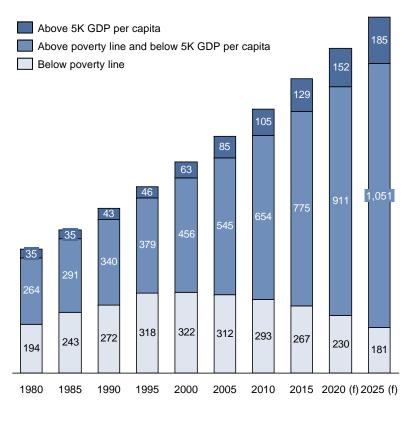
Source: World Bank Global Economic Prospects- January 2016

Economic trends

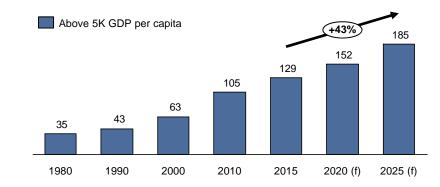
With a young population and a growing urban middle class, a potential 2 trillion (USD) market opportunity is expected

Africa population by income group

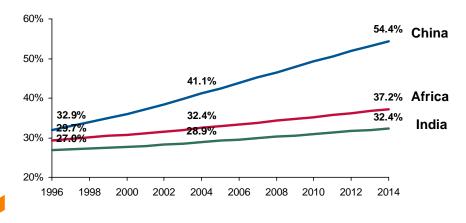
US\$ millions



Population above 5k GBP per capita



Urban population (% of total)



Approx. 65% of the population is less than 35 years old

Source: United States Census, African Union Commission; the World Bank; the IMF and the AFDB





African total trade (by weight) trends



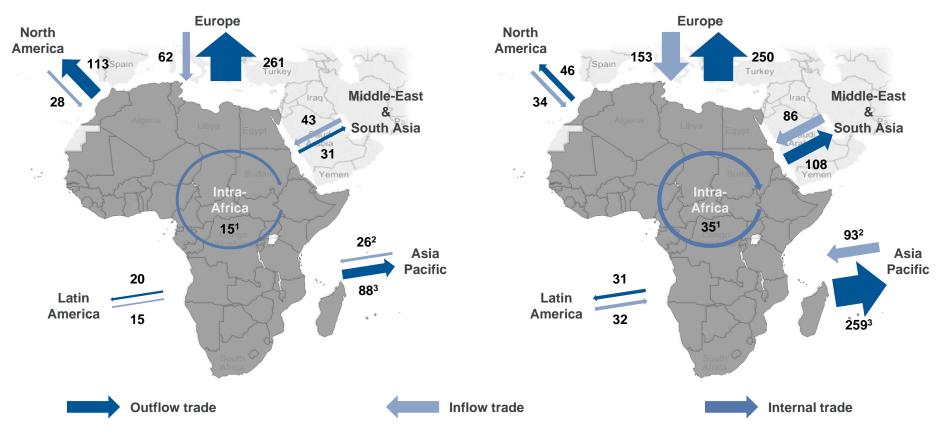
Between 2000 and 2014, African trade flows have increased significantly with Asia Pacific to nearly the European levels; with significant North American reductions

Metric tons (M)

African total trade weight in 2014

African total trade weight in 2000

Metric tons (M)



Notes: Trade commodities include amongst others raw materials, industrial consumables, foods, chemicals and products and temperature or climate control; (1) Intra- African flows are partial, the missing flows are inside and between North Africa and West Africa; (2) Inflow trade weight from China jumped from accounting for 20% of the Asian Pacific inflow in 2000 to 50% in 2014; (3) Outflow trade weight to China jumped from accounting for 33% of the Asian Pacific outflow in 2000 to 70% in 2014; Source: Seabury Global Trade Database

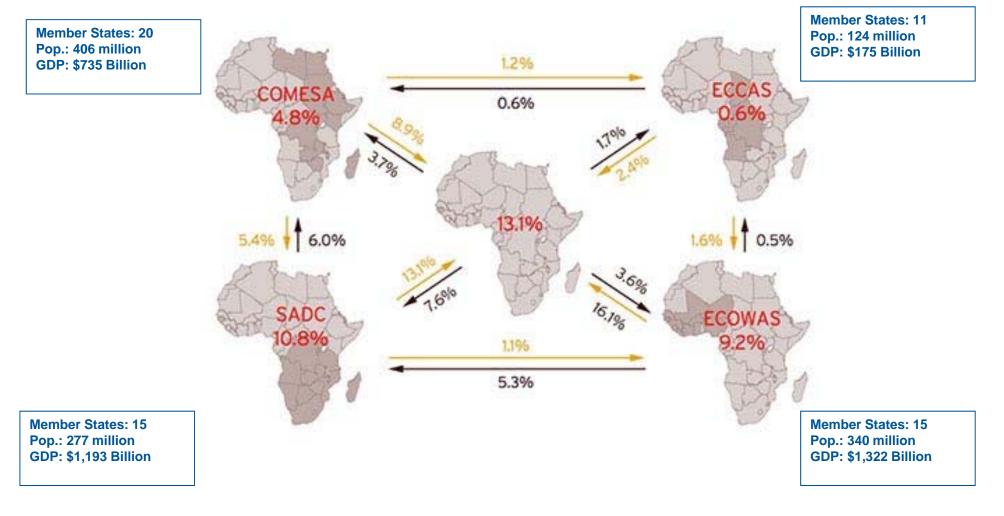


Intra Africa trade trends and regional integration (by weight)



Approx.13% of African trade is intra-Africa with limited regional integration

Intra Africa trade by regional blocs & within Africa in 2015

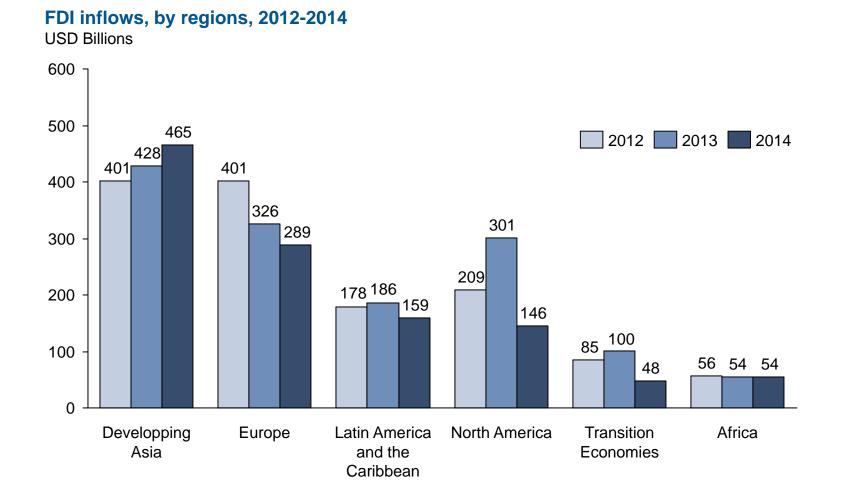


Source: Intra-African Trade' - A Renewed Urgency for Further Regional Integration by the AU

Trade trends- Foreign direct investment



Foreign direct investment (FDI) inflows to Africa as a whole remained stable at \$54 billion in 2014



Source: unctad.org/en/PublicationsLibrary/wir2015_en.pdf, UNCTAD World Investment Report 20151



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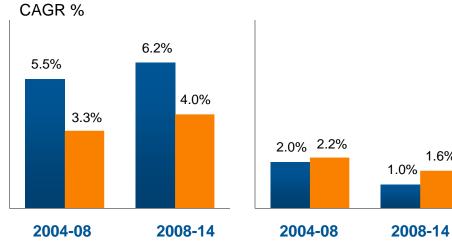
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Growth in Real GDP and ASKs by Region

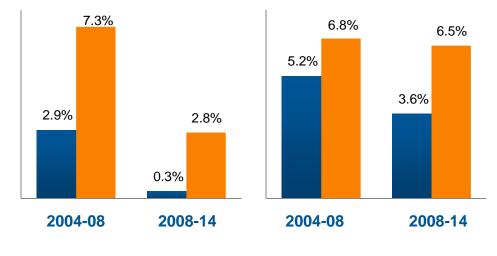


Commercial traffic in Africa is expected to grow at 5.2% annually between 2011 and 2030

1.6%



GDP & ASK growth per year



Africa

North **America**





GDP growth ASK growth

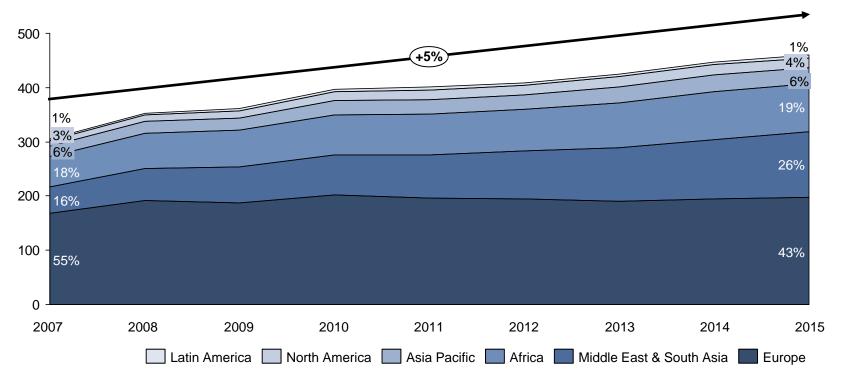
Source: Diio and Seabury Analysis

ASK distribution



Since 2007, the distribution of ASKs to / from Africa has shifted from being European oriented to a more global orientation

ASKs to / from Africa and other continents



ASKs both ways (Billions)

Source: Innovata schedule data, Seabury analysis



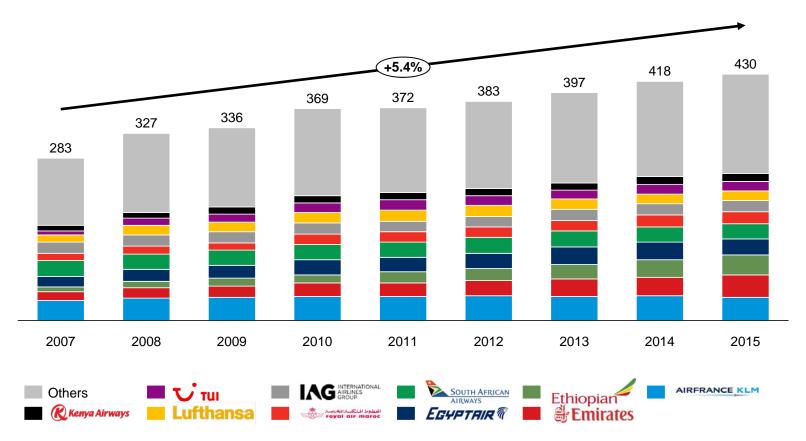
International ASKs



Since 2007, the 5.4% YoY growth of international ASKs to / from Africa has been primarily driven by Emirates, Ethiopian and other African carriers

ASKs top 10 carriers

ASKs both ways (Billions)

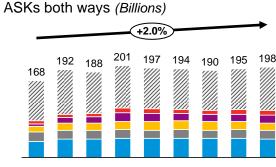


Source: Innovata schedule data, Seabury analysis

African air traffic growth



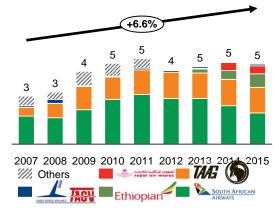
Africa - Europe



2007 2008 2009 2010 2011 2012 2013 2014 2015 Others Construction Construct

Africa – Latin America

ASKs both ways (Billions)

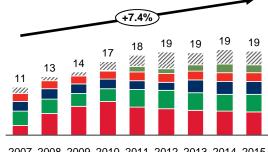


Africa – Middle-East

ASKs both ways (Billions)

Africa – North America

ASKs both ways (Billions)



 2007 2008 2009 2010 2011 2012 2013 2014 2015

 Others

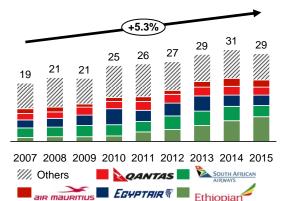
 Ethiopian

 Ethiopian

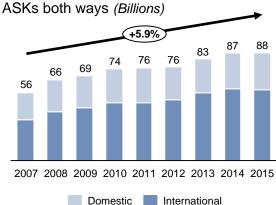
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Africa - Asia

ASKs both ways (Billions)



Africa: Dom. vs. Int.



Notes: S.A.A = South African Airways, R.A.M = Royal Air Maroc Source: Innovata schedule data, Seabury analysis

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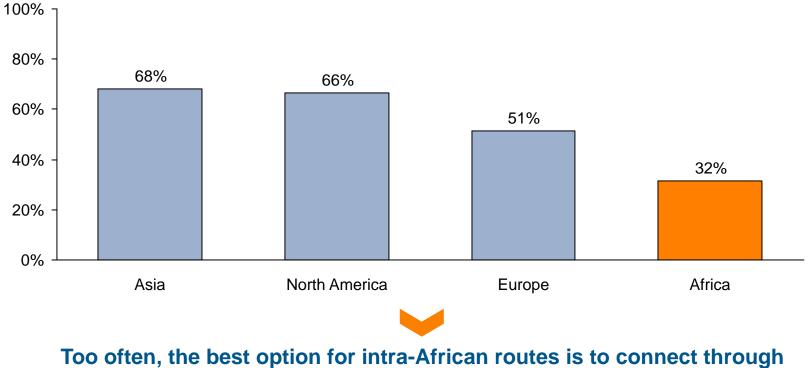
Airfinance EVENTS

Intra-Africa capacity



The intra-African markets are underserved and represents a huge opportunity for airlines

2014 Inter-regions capacity as a % of total capacity (ASMs)



Europe of the Middle East

African carriers



5 African carriers offer more than 65% of the total capacity; largely from Ethiopia, South Africa, Egypt, Morocco and Kenya in a continent of 54 countries

0	ASMs (millions, LTM Dec 2015)	Prop	Existir RJ	ig Fleet Narrow	Wide	Prop	Fleet RJ	Orders Narrow	Wide	Total Exist.	Fleet Order
Ethiopian	21,750	12	-	20	30	2	-	20	18	62	40
South African Airways	19,784	-	-	26	23	-	-	-	5	49	5
EGYPTAIR	17,002	-	-	34	18	-	-	8	1	52	9
المطوط المالكية المعرجية royal air maroc	11,955	-	4	36	7	-	-	-	3	47	3
Kenya Airways	9,067	-	15	11	9	-	-	-	-	35	-
AIR ALGERIE	5,804	15	-	26	11	-	-	6	-	52	6
Comair Limited	4,040	-	-	13	-	-	-	10	-	13	10
الضطوط التونسية TUNISAIR	3,832	-	-	28	2	-	-	4	1	30	5
THE INHAS AEREAS DE ANGOLA ANGOLA AIRLINES	3,457	-	-	5	6	-	-	-	2	11	2
🖌 nouvelair	3,413	-	-	6	-	-	-	-	-	6	-
ومعمود	2,194	-	-	11	-	-	-	-	-	11	-
الـعربيــة للـطيـران airarabia.com	1,392	-	-	4	-	-	-	-	-	4	-
الخطوط ایجون اسوانیت SUDAN AIRWAYS	1,264	3	1	3	-	-	-	-	-	7	-
©ECAir	1,136	-	-	3	1	-	-	-	-	4	-
Air Madagascar	1,087	4	-	1	2	3	-	-	-	7	3
RwandAir	869	2	2	4	-	-	-	-	2	8	2
	833	-	2	2	-	-	-	-	3	4	3
	781	3	-	2	-	-	-	-	-	5	-
Currente ementer Arritico	746	-	-	3	-	-	-	-	-	3	-
	727	3	-	13	-	-	-	-	-	16	-
All Others (42 carriers)	8,043										

Source: ASM are LTM December 2015 from Diio.net; fleet data from Ascend (March 2016) and CAPA (March 2016)

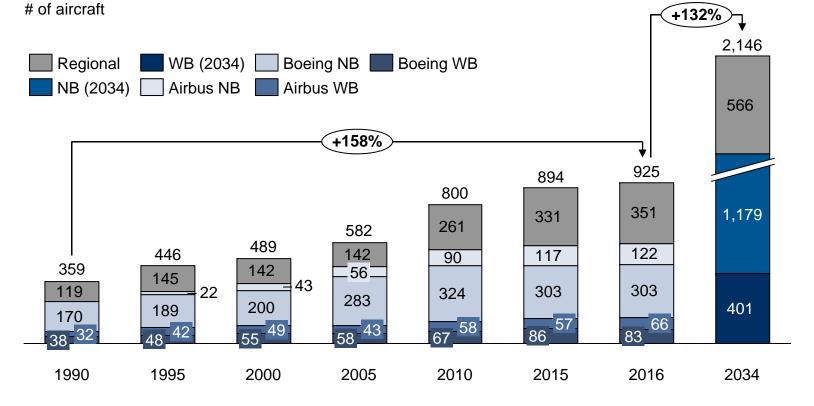


Actual and forecasted fleet in Africa



All major manufacturers share the view that Africa's fleet will more than double until 2035

Passenger aircraft in service (actual and forecasted)



Notes: Airbus forecasts 1,117 deliveries and 100 retirements of NB and WB aircraft for the 2015-2014 period; Boeing predicts 1,170 deliveries for the same period. Embraer forecasts deliveries of 240 70-130 seat regional aircraft and 140 turboprop regional aircraft for the 2015-2034 period. Regional fleet includes the following manufacturers: ATR, BAE Systems, Bombardier, Embraer and Fokker

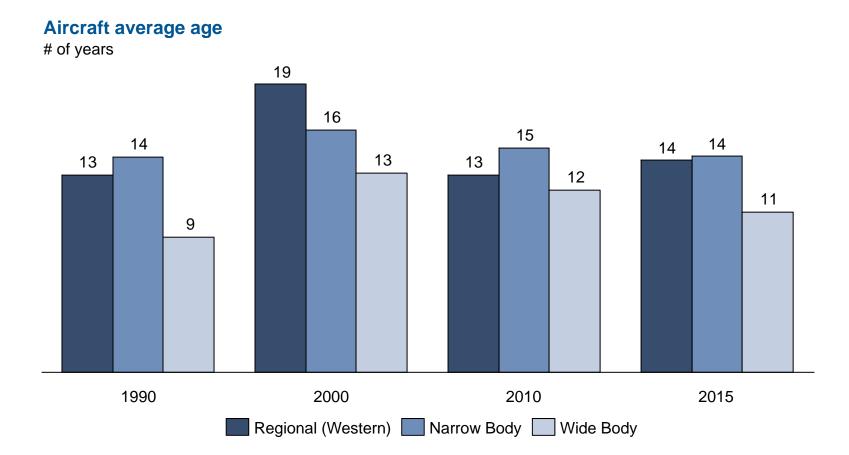
Source: Ascend, Airbus forecast, Embraer forecast, Seabury analysis



Africa's fleet average age



The average age has been steadily dropping since 2000



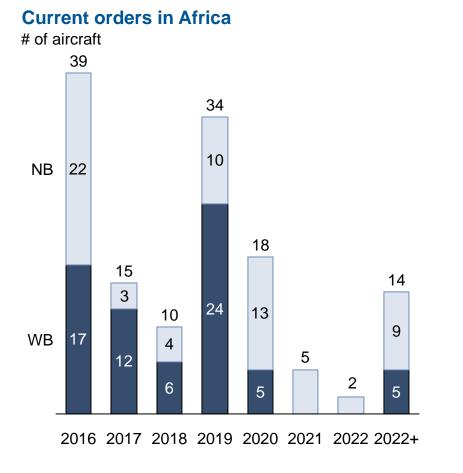
Notes: Core regional fleet includes the following manufacturers: ATR, BAE Systems, Bombardier, Embraer and Fokker Source: Ascend, Seabury analysis

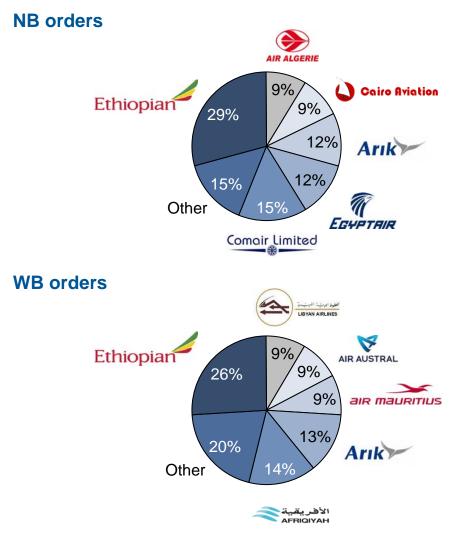


Expected NB and WB deliveries to airlines



Airbus and Boeing expect over 1,100 WB and NB deliveries until 2035 with only 137 firm orders today





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Source: Ascend, Seabury analysis

African airlines; joint ventures and international alliance



With only 4 airlines participating in global alliances; joint ventures have become more prominent



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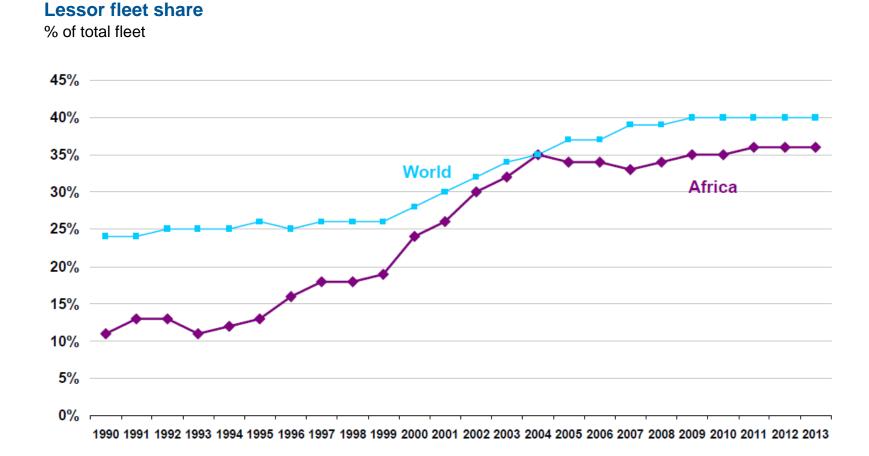


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Aircraft lessors increasing Africa exposure



In Africa, Lessors are increasing their market shares; in a region with relative limited access to capital their role is essential to the industry's growth



Source: Boeing Capital, Ascend 2014 data, Seabury analysis

Aircraft financing environment



African carriers should be well positioned to access traditional and new sources of funding

Capital Providers	2009	2010	2011	2012	2013	2014	2015	2016F	2016 Africa	Seabury Outlook
Leasing Companies										With appetite for higher risk, major source of capital
Capital Markets										Very limited opportunities, potentially through Exim-Bond
Commercial Banks										Some appetite, increased "regional" risk make the banks cautious
Export Credit Agencies										Available to support, some creative solutions, but expensive
Private Equity and Hedge Funds										Some availability, looking for yield
Tax efficient leasing**										Unlikely
New Sources of Funding*										Public banks and insurance companies
Airframe and Engine Manufacturers										Limited support available
Satisfactory		Ca	autionar	ry / Satis	factory		Ca	utionary		Concern Major Concern

Note: *Includes regional banks, pension funds, Islamic finance and other new exotic solutions; **Includes JOLCOs, French Operating Leases, US & Spanish Operating Leases Source: Boeing Capital, Seabury analysis



Potential sources of funds for other Aviation projects

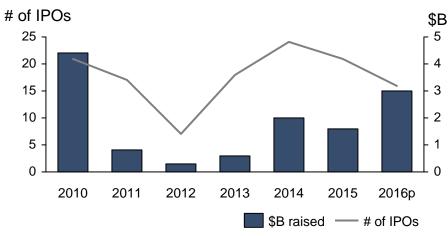


Although Africa presents a challenging environment, alternative sources of financing are available

Sources



IPOs in Africa



Opportunities

- Increased interest of private equity for Africa (c\$12b/y)
- A steady increase of companies launching IPOs
- Sovereign funds exposure:
 - Norway's sovereign fund held African securities >\$5.6bn
 - Chinese African FDIs rose to \$3.5bn in 2013
 - Africa's sovereign funds could invest an additional \$29bn

Challenges

- Complicated legal & political framework
- Limited market liquidity (growing market but lacking depth)
- "Overhang" of unused capital due to limited suitable investment opportunities
- High economic volatility linked to high dependency on commodity prices

Source: Baker & McKenzie, Thomson One, Overseas Development Institute, The Commonwealth, World Bank, Reuters



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Airline success factors: Key elements



Airline success revolves around 6 key interrelated elements supported by a comprehensive strategy and business plan



	Commercial Strategy	Fleet
Strategic Direction	 Sound long-term strategy Rationalized and optimized network and schedule Effective revenue management Match aircraft to network plan and growth strategy 	 No uneconomic aircraft Market aircraft financings Future fleet secured to deliver commercial strategy
	Best practice operations and lean cost structure	Labor
Cost Structure	 Well negotiated customer & vendor contracts Optimized supply chain Monitored lean cost structure Constantly implement best operational practices 	 High labor productivity Streamlined organization Sustainable labor costs
	Liquidity	Capital Structure
Catalysts	 Appropriate liquidity level to deal with seasonality & chocks Monitoring procedure 	 Appropriate capital to finance business plan Secured aircraft financing Strong balance sheet



Airline success factors and challenges in Africa



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Low cost base



Access to capital



Cape Town convention

Success factors



Strong local market



Management stability



Government support



Strong network



Modern fleet

Alliances/

partnerships



Limited access to capital



Management instability





Political instability & terrorism



LCC/Middle East competition



Weak infrastructure

Lack of open skies intra-Africa



Airline failures

The continent has had a number of failures in recent years

Korongo airlines (2015)	(2014)	1time.co.za (2012)	(2012)
Jet4you.com (2012)	(2012)	(2011)	
air sénégal international (2009)	(2009)	Nationwide Airlines (2008)	(2007)
(2006)	(2004)	(2003)	AIR AFRIQUE (2002)





Airfinance EVENTS

Some African Airlines success stories



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Success factors

Challenges

		Low cost base	Strong local market	Strong network	Access to capital	Managemen stability	t Modern fleet	Cape Town convention	Government support	Alliances/ partnership	Limited access to capital	Political instability & terrorism	Weak infrastructure	Management instability E	LCC / Middle East competition	Lack of ope skies intra Africa*
Ø	Royal Air Maroc	\checkmark		\checkmark	\checkmark	\checkmark	\checkmark		\checkmark	\checkmark			\checkmark		\checkmark	
6	TAAG Angola		\checkmark					\checkmark	\checkmark	\checkmark	\checkmark		\checkmark	\checkmark		
	Ethiopian Airlines	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark					\checkmark	
J	Air Côte d'Ivoire			\checkmark		\checkmark	\checkmark		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark			\checkmark
R	Kenya Airways		\checkmark	\checkmark			\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		\checkmark	\checkmark	
	Air Mauritius					\checkmark			\checkmark	\checkmark					\checkmark	
	South African Airways		\checkmark	\checkmark	\checkmark				\checkmark	\checkmark				\checkmark	\checkmark	
,	Fast Jet	\checkmark	\checkmark	\checkmark			\checkmark				\checkmark		\checkmark	\checkmark		\checkmark

Note: *There are no real open skies in Africa but airlines focusing on intra-Africa traffic are significantly affected

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DELIVERING COMPREHENSIVE SOLUTIONS FOR AVIATION CLIENTS WORLDWIDE

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