

# BOC AVIATION INVESTOR UPDATE 

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## 2018 - A New Milestone



## Steady Increase in Net Assets and Earnings Per Share



## 25 Years of Success

- Company celebrated our $25^{\text {th }}$ anniversary in November 2018
- New Chairman Sun Yu joined the Board in February 2019
- Largest aircraft operating lessor headquartered in Asia
- Listed on HKEX on 1 June 2016
- Market capitalisation increased $50 \%$ to US $\$ 5.7$ billion vs US $\$ 3.8$ billion at IPO ${ }^{1}$
- Leading industry indicators
- Young fleet age of 3.1 years $^{2}$
- Long average lease term of 8.2 years $^{2}$
- Low cost of funds
- The longest serving CEO in the same operating lease company
- Robert Martin's $21^{\text {st }}$ year as CEO
- Highest credit ratings of A - amongst aircraft operating lessors

$$
\text { A top } 5 \text { global aircraft lessor today }
$$

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1. Source: Bloomberg
2. Weighted by net book value of owned fleet

## 1Q19 Operational Performance Update

- Ended March 2019 with total fleet of 507 aircraft comprising 310 owned, 25 managed and 172 on order
- Portfolio utilization of $99.9 \%$
- Cash collection rate of $100 \%{ }^{1}$
- Took delivery of 11 aircraft ${ }^{2}$
- Added three new airline customers
- Signed seven lease commitments
- Sold one owned aircraft
- Raised US $\$ 550$ million in debt capital markets
- Total future committed CAPEX of c.US\$9.2 billion ${ }^{1}$


## A strong start to the year

## Record NPAT

Fleet growth underpins lift in revenues


## Strong PBT Growth

US\$ million


All data as at 31 December 2018
Note:

1. Calculated as lease rental income less depreciation and finance expenses, amortization of debt issue costs and lease transaction closing costs

Steadily increasing core lease rental
contribution ${ }^{1}$


Robust NPAT performance

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## Lease Rental Income Continues to Dominate Revenue



## Core Leasing Business Supports Earnings Growth




Number of years

... and high future committed lease revenue


## All data as at 31 December 2018 unless otherwise indicated

## Notes:

1. Calculated as lease rental income less depreciation and finance expenses, amortization of debt issue costs and lease transaction closing costs
2. Comprises aircraft depreciation and impairment charges
3. Weighted by net book value of owned fleet

## Consistent Net Lease Yield Drives Profitability

Higher lease rate factor ${ }^{1}$ reflects increased
proportion of fixed rate leases


## Proportion of fixed rate leases rising steadily²


... with a higher share of fixed rate debt and higher base rates affecting finance expenses ${ }^{3}$

Maintaining net lease yield >8\% ${ }^{4}$


All data as at 31 December 2018
Notes:

1. Calculated as lease rental income divided by average net book value of aircraft and multiplied by $100 \%$
2. By net book value including aircraft held for sale and excluding aircraft subject to finance lease as well as aircraft off lease
3. Calculated as the sum of finance expenses and capitalized interest, divided by average total indebtedness. Total indebtedness represents loans and borrowings and finance lease payables before adjustments for debt issue costs, fair values, revaluations and discounts/premiums to medium term notes
4. Calculated as lease rental income less finance expenses divided by average net book value of aircraft

## Stable Debt Structure Limits Interest Rate Effects

US\$ billion


Close to 80\% of debt unchanged from 1 January 2018

## Diversified Portfolio Delivers High Utilization, High Collection Rate

Lease portfolio diversified by customer¹,2,3


High collection rate ${ }^{4}$

Average $=99.7 \%$
$\begin{array}{lllllllllll}2008 & 2009 & 2010 & 2011 & 2012 & 2013 & 2014 & 2015 & 2016 & 2017 & 2018\end{array}$
All data as at 31 March 2019 unless otherwise indicated
Notes:

1. Based on net book value as at 31 March 2019
2. For certain airlines, the percentage includes leases to affiliated airlines whose obligations are guaranteed by the named airline
3. Based on the jurisdiction of the primary obligor under the relevant operating lease.
4. As at 31 December 2018
5. Fleet utilization is the total days on-lease in the period as a percentage of total available lease days in the period


Chinese Mainland,
Hong Kong SAR,
Macau SAR and
Taiwan
31.3\%

Asia Pacific (excluding Chinese Mainland, Hong Kong SAR, Macau SAR and Taiwan)
22.4\%

High fleet utilization ${ }^{5}$
$100.0 \% 100.0 \% 100.0 \% 100.0 \% 99.8 \% 99.0 \%$ 99.9\% 100.0\% $99.9 \%$ 99.8\% 99.9\% 99.9\%



## Long-term Contracted USD Leases



Long average remaining lease term²
Number of years


Source: Respective company websites

All data as at 31 December 2018 unless otherwise indicated
Notes:

1. Owned aircraft with lease expiring in each calendar year adjusted for any aircraft for which BOC Aviation has sale or lease commitments, weighted by net book value as at 31 March 2019
2. Weighted by net book value of owned fleet as at 31 December 2018 for all except for BOC Aviation, which was as at 31 March 2019
3. By net book value including aircraft held for sale and excluding aircraft subject to finance lease as well as aircraft off lease

## Proportion of fixed rate leases rising steadily ${ }^{3}$



## Proportion of fixed rate debt also rising ${ }^{4}$

- Hedged c. $80 \%$ of mismatched interest rate exposure


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## Flexible Capital Structure and Ample Backstop Liquidity



Outstanding debt amortises over a long term




## Undrawn committed credit lines and cash of US\$3.8 billion at year end

## Popular and Fuel-Efficient Fleet

| Our aircraft portfolio |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Aircraft type | Owned aircraft | Managed aircraft | Aircraft on order ${ }^{1}$ | Total |
| Airbus A320CEO family | 129 | 8 | 0 | 137 |
| Airbus A320NEO family | 29 | 0 | 56 | 85 |
| Airbus A330CEO family | 12 | 4 | 0 | 16 |
| Airbus A330NEO family | 0 | 0 | 12 | 12 |
| Airbus A350 family | 6 | 0 | 2 | 8 |
| Boeing 737NG family | 98 | 8 | 2 | 108 |
| Boeing 737 MAX family | 6 | 0 | 87 | 93 |
| Boeing 777-300ER | 19 | 3 | 3 | 25 |
| Boeing 777-300 | 0 | 1 | 0 | 1 |
| Boeing 787 family | 6 | 0 | 10 | 16 |
| Freighters | 5 | 1 | 0 | 6 |
| Total | 310 | 25 | 172 | 507 |

## Orderbook Underpins Future Balance Sheet Growth



Number of owned aircraft


Average annual CAPEX of around US\$4 bn since IPO
US\$ billion


Premium over aircraft NBV1,2


## Aircraft net book value grew 40\% since 2016

## All data as at 31 December 2018 unless otherwise indicated

Notes:

1. Average of five appraisers
2. Percentages refer to premium of appraised current market value over aircraft NBV

## Value Driven by Fleet and Committed Lease Revenues



Committed future revenues of US\$16 billion

## US\$ billion



## All data as at 31 December 2018

Note:

1. Based on an average of five independent appraisers' aggregate value for our owned fleet at US\$16.6 billion, on a full-life, current market value basis, which compared with a net book value of US $\$ 15.0$ billion

## Conclusion

- 2018 was another stellar year
- PBT up 24\%
- NPAT increased $6 \%$ to US $\$ 620$ million
- ROE of $15.5 \%$ - above 12 -years average of $15 \%$
- Dividend payout ratio maintained at $35 \%$ of full year NPAT
- Total annual dividends of US\$0.3129/share
- High liquidity, long-term revenue visibility and sustainability
- Committed lease revenues increased to US\$16 billion
- Orderbook of 172 aircraft provides future balance sheet growth ${ }^{1}$
- Available liquidity of US\$3.8 billion at year end to support future investment
- Strong operations
- $100 \%$ cash collection rate and $99.9 \%{ }^{1}$ fleet utilization rate
- Robust asset-liability management minimizes impact of interest rate movements
- Positive outlook
- 2019 expected to be the airline industry's $10^{\text {th }}$ consecutive year of above trend passenger demand growth ${ }^{2}$
- 79 aircraft delivered/scheduled to be delivered to BOC Aviation in $2019^{3}$


## 2018: Record earnings in a landmark year

## APPENDICES

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## The BOC Aviation Journey

## Ownership



[^0]Total assets


## BOC Aviation - Who Are We?

- One of the world's top five aircraft lessors
- The largest in Asia
- Bank of China owns 70\%
- Listed on the HKEX
- Four Independent Non-Executive Directors
- Diverse shareholder base
- Free float of $30 \%$ with steadily improving liquidity
- 2018 average daily share turnover of US $\$ 7.5$ million ${ }^{1}$
- Total assets of US\$18.3 billion
- 507 aircraft $^{2}$
- Consistent profitable performance for 25 years
- Industry-leading financial metrics - average ROE of $15 \%$ over the last 12 years
- Investment grade credit ratings of A- from S\&P Global Ratings and Fitch Ratings


## An established lessor with deep management experience

## Our Management Team



Global, stable and highly experienced senior management team

## Core Competencies - a Reminder

## Since inception in 1993:

- Purchasing
- Leasing
- Financing
- Sales
- Transitions
- Repossessions

More than 800 aircraft purchased totalling more than US $\$ 44$ billion
More than 870 leases executed with > 160 airlines in 57 countries and regions
More than US\$24 billion in debt raised since 1 January $2007^{1}$

More than 330 aircraft sold
More than 80 transitions
39 aircraft in 14 jurisdictions ${ }^{2}$

## How We Invest

## Number of aircraft delivered, purchased and sold



## Positive Environment with Airline Profitability near Records

Elevated airline profitability sustained


Source: IATA (December 2018)

All significant markets continue to record high air traffic growth

$\square$

## High load factors suggest well-managed capacity

Passenger Load Factor
YoY change, \%

—Passenger Load Factor YoY \% Change (LHS)
_—Passenger Load Factor 12M Mov. Avg (RHS)

[^1]
——Passenger Load Factor (RHS)

## Underlying Traffic Growth Positive for Core Leasing Business

Above-trend passenger demand growth


Source: IATA (February 2019)

## Air traffic estimated to grow by c.150\% in the

next two decades...


Source: Ascend Flightglobal Fleet Forecast 2015, Oxford Economics, Boeing Current Market Interactive Forecast 2018-2037
Note:
1.Defined as number of households with yearly income between US\$25,000 and US\$150,000

Growth in the middle classes ${ }^{1}$ to be driven by emerging economies
Middle class households (million)


Source: Euromonitor

## Fleet expected to double in the next 20 years

20-year fleet growth rate, \%


Source: Airbus Global Market Forecast, Boeing Capital Market Outlook

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## Aircraft Operating Leasing Drivers



Source: Boeing CMO 2018-2037

## Predominantly single aisle aircraft

Number of aircraft

## Share of operating lessors now stable

New aircraft demand led by Asia Pacific


Source: Boeing CMO 2018-2037


Source: Ascend, 31 March 2019

## Leasing: Customer Segmentation

- 785 airlines in service today
- Focus on 143 airlines or only $18 \%$ of the airlines in the market - minimum credit score, above 20 aircraft


## Airline segmentation by credit score and fleet size

## Our target 143 airlines operate 74\% of the current in-service aircraft




Credit above minimum, fleet 10-20 aircraft

Credit below minimum, fleet 10-20 aircraft

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[^0]:    All data as at the end of the relevant period

[^1]:    Source: IATA (February 2019)

