





Commercial Market Overview

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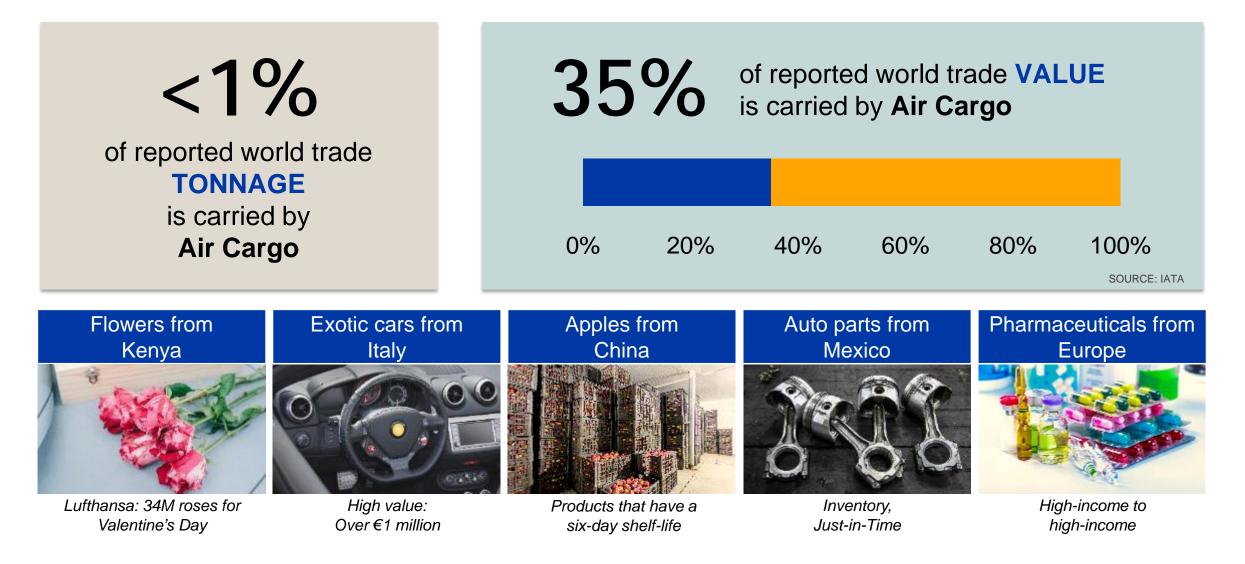
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24 hours in air cargo...



SOURCES: Boeing Market Analysis Research and IATA

Air cargo competitive advantages: speed, reliability and security



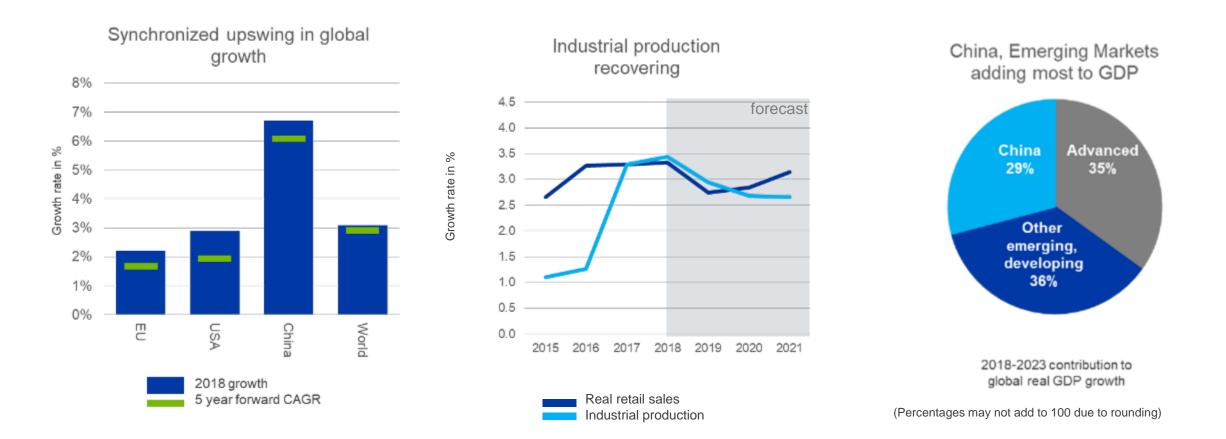


Market drivers and dynamics

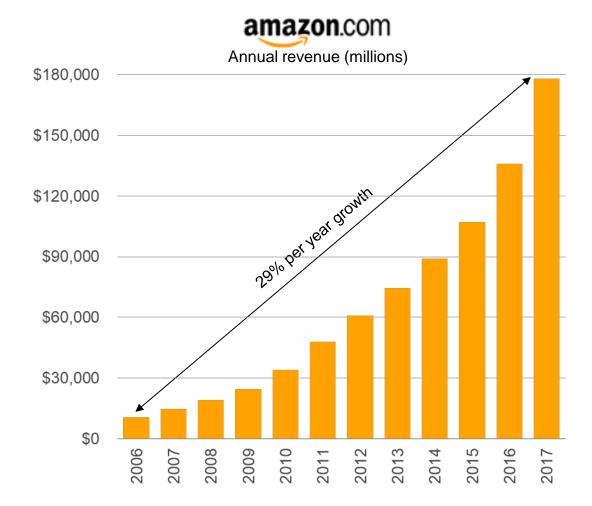
Commercial Market Outlook (CMO)

Economic fundamentals support strong demand

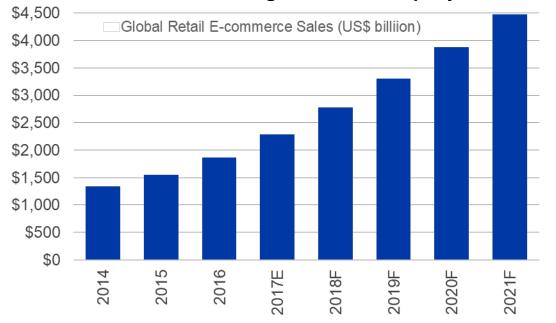
Key economies growing, industrial production gaining strength



E-commerce continues rapid expansion



Global retail e-commerce sales to grow to \$4.48 trillion in 2021, growth of 19.2% per year



By 2020 China's e-commerce market is forecast to be bigger than the existing markets in America, Britain, Japan, Germany and France <u>combined</u>.

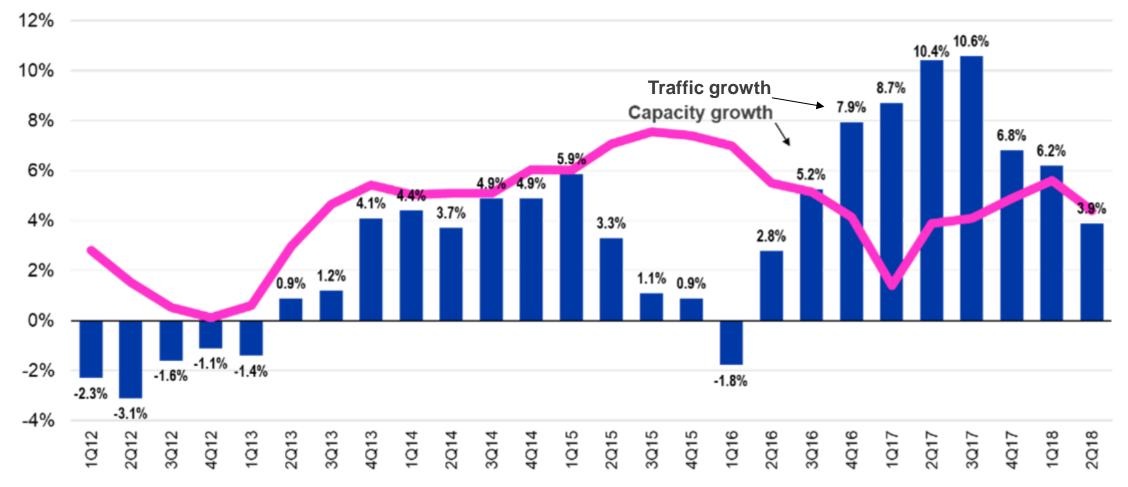
The Economist, The Alibaba Phenomenon



SOURCE: Statista (www.statista.com)

Air cargo capacity exceeding capacity growth in 2Q18

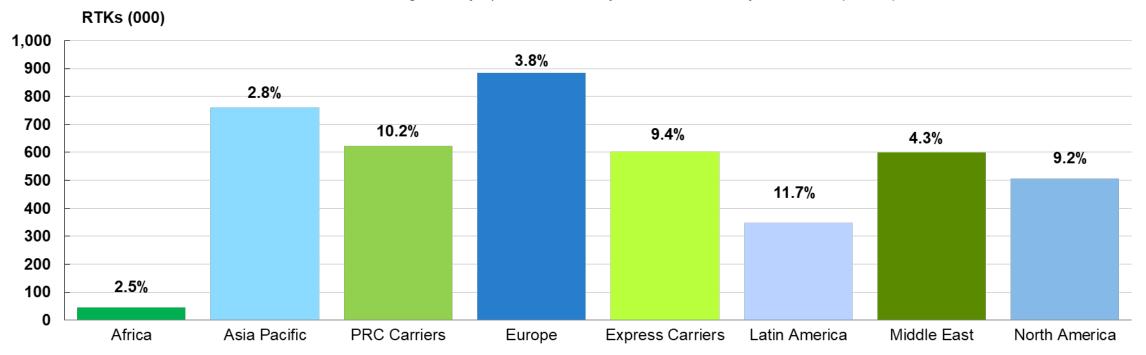
Year-over-year RTK (traffic) and AFTK (capacity) growth settling in, with more balance



Source: IATA Carrier Tracker

International air cargo growth continuing after spectacular expansion in 2017

Year-over-year growth at 5.0%



International RTK growth by operator domicile year-to-date January-June 2018 (% YoY)

Sources: IATA Carrier Tracker, A4A, and Boeing analysis

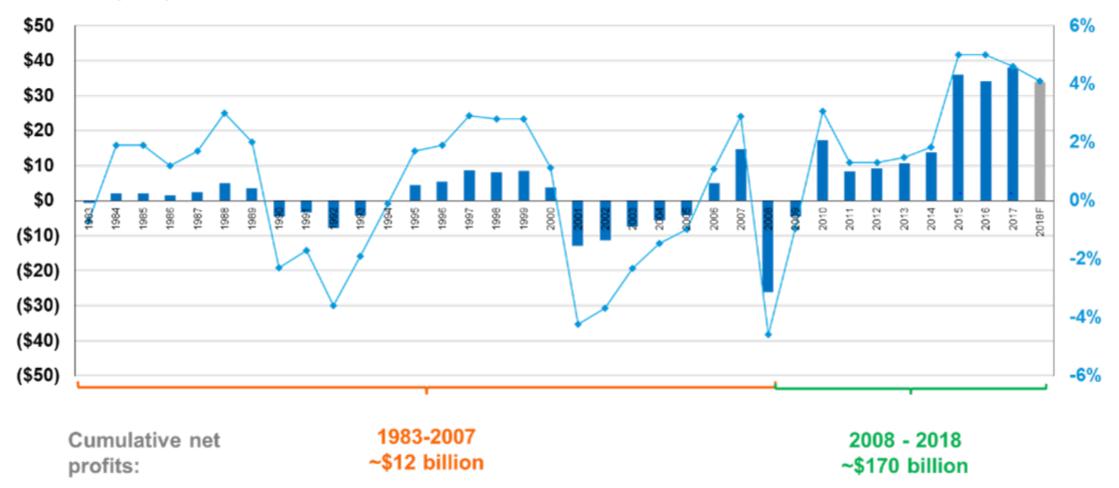
All airline-domicile regions continue growing in first half of 2018

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Sustained global airline profits, 3 years of above \$30 billion

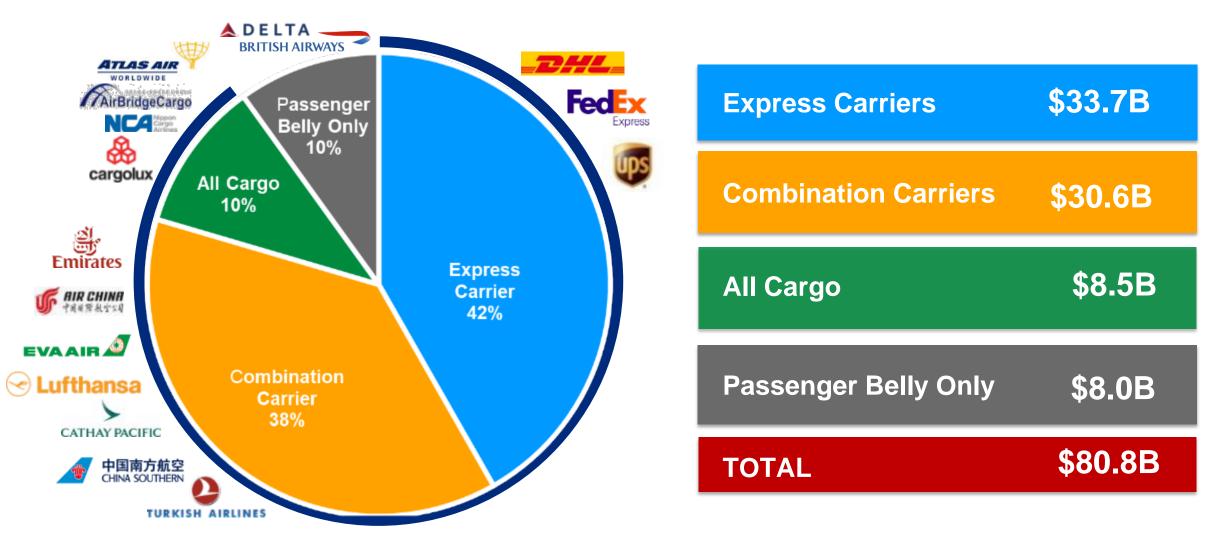
Net Profit (Loss) Billions

Percent of Revenue



Freighters critical in air cargo markets

Airlines operating freighters generate 90% of industry revenues

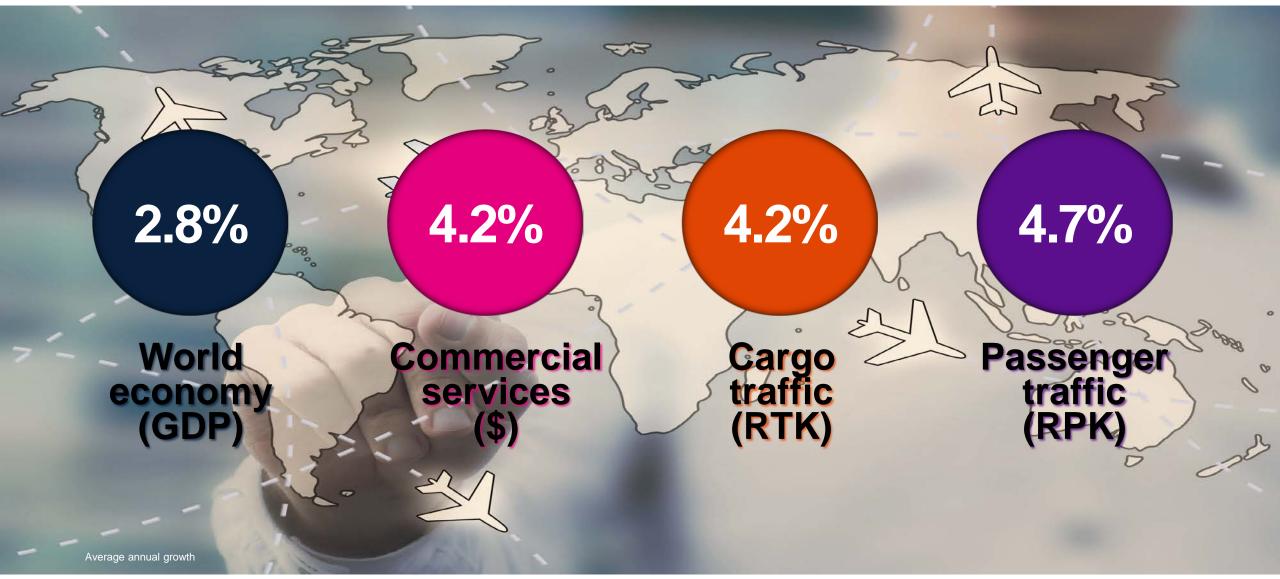


SOURCES: FlightGlobal, U.S. DOT F41, airline reports, and Boeing estimates (2016 data)



Commercial Market Outlook (CMO)

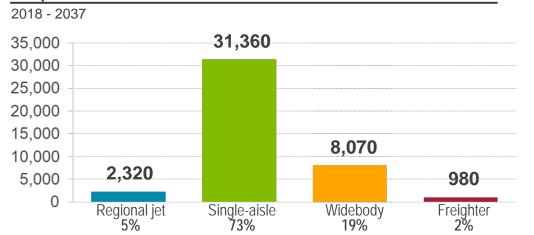
20-year forecast: continued long-term growth



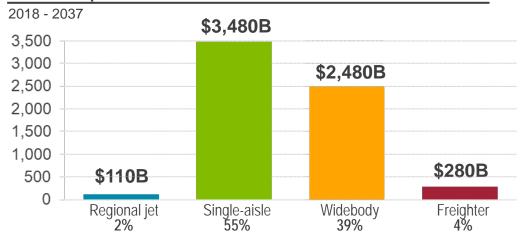
Airlines will need 42,700 new airplanes valued at \$6.3 trillion



Airplane deliveries: 42,700

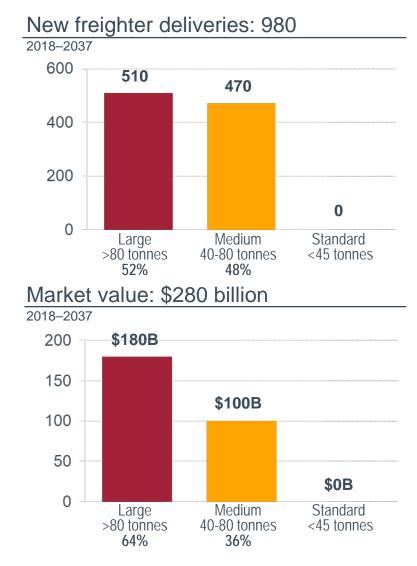


New airplane values: \$6.3T



New freighter deliveries will be led by demand for large widebodies

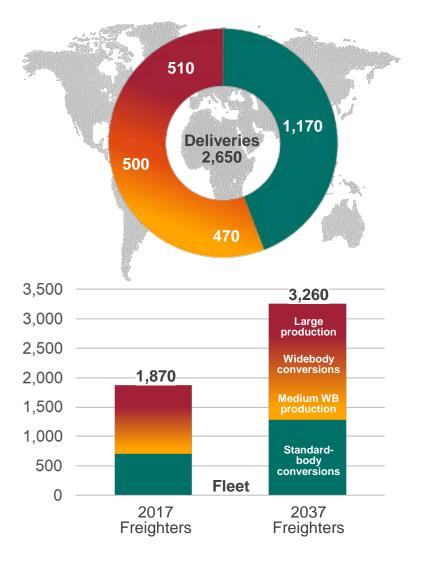




More than 2,600 freighters needed by 2037

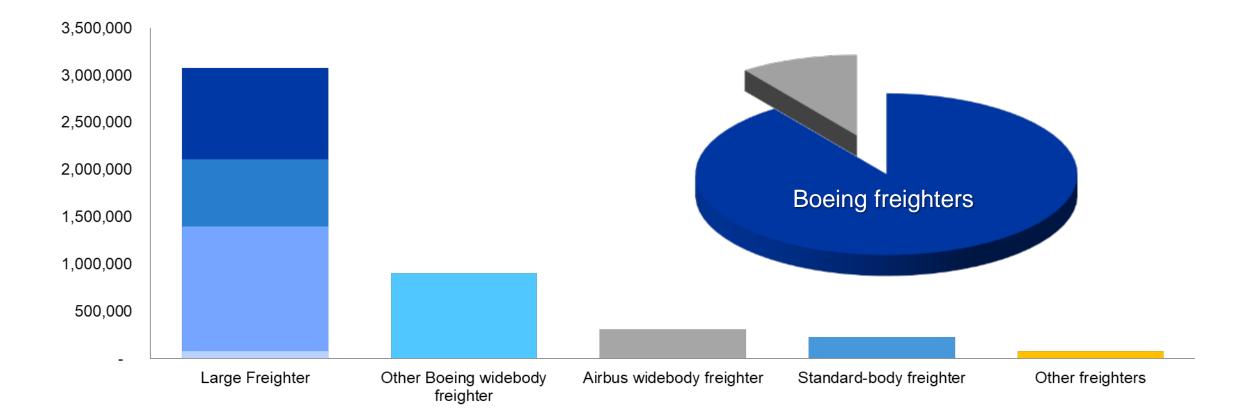
Freighter demand = 980 new + 1,670 converted





More than 90% of world's freighter capacity are Boeing

Weekly freighter ATKs (000)



Products and services that deliver value



Things to remember

World air cargo traffic has rebounded

World air cargo traffic forecast to grow 4.2% per year through 2037

World freighter fleet will expand to 3,260 airplanes over the next 20 years

Boeing is the air freight leader

