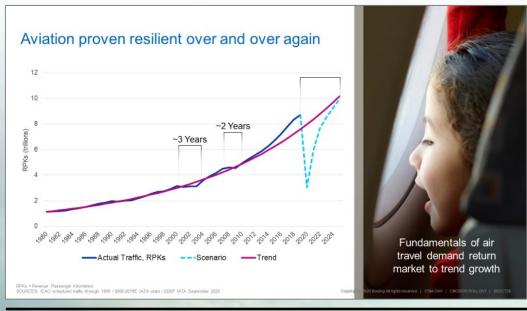
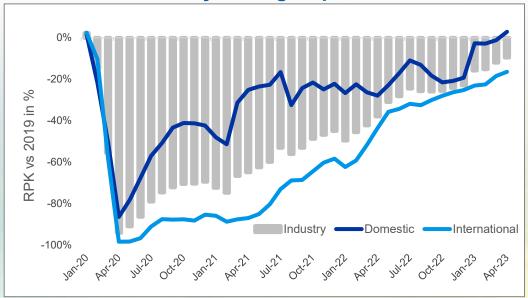


Industry recovery progressing broadly as anticipated





Recovery through April 2023

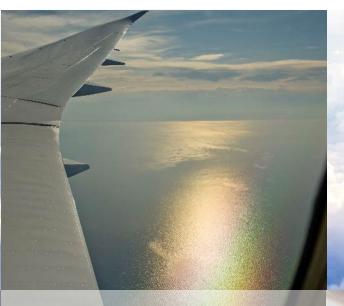


2020	Industry metric	2023
50%	Passenger flights	97%
25%	Passenger traffic	90%
2023/2024	Passenger recovery	2023/2024
~4%	Long-term traffic growth	~4%
Accelerated (4-5%)	Airplane retirement outlook	Delayed (1-2%)

Passenger market nearing pre-crisis levels of activity

Passenger fleet (active)

97%



Passenger capacity

92%





Passenger flights

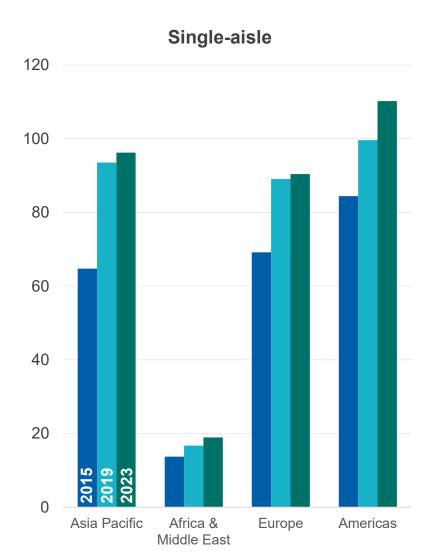
97%



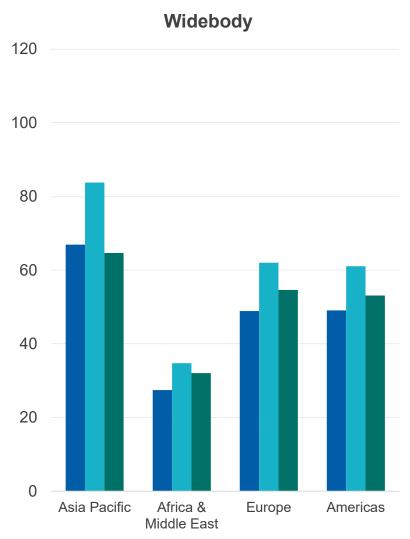
Passenger traffic

90%

Single-aisle back to growth, widebody recovery at 85%



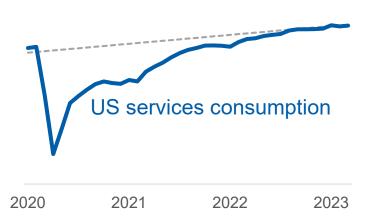




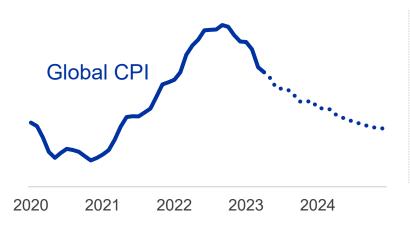
Economic fundamentals steady despite slowing growth



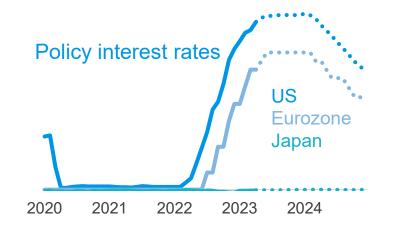
Consumption... resilient



Inflation... improving



Financial sector... sound





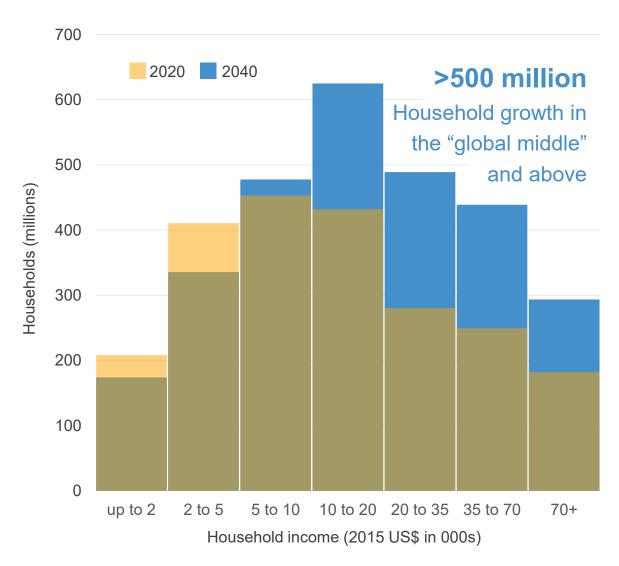
Demand not constraining recovery

Policy harmonization

Labor availability

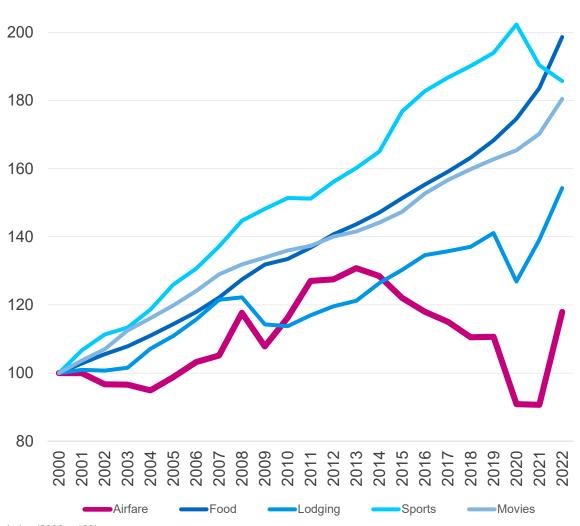
Supply chain stability

Global middle income household growth supports air travel demand





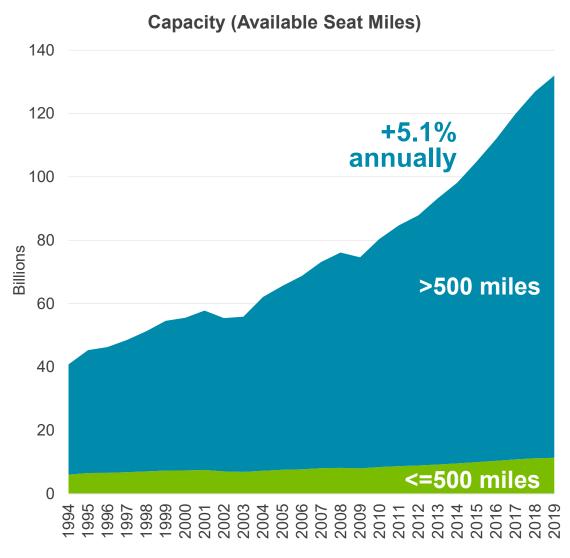
Airfares are rising but less than other leisure and travel categories



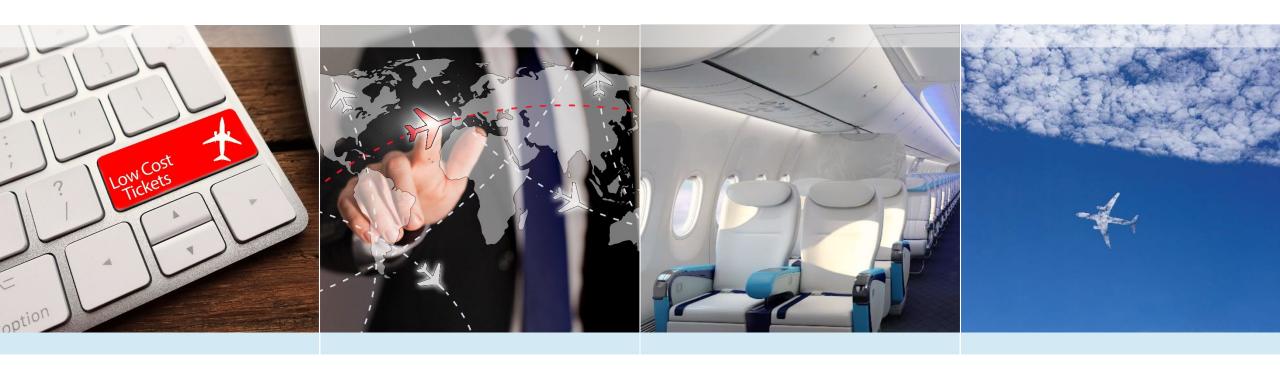


Air travel adds value on longer trips





Airline and network trends



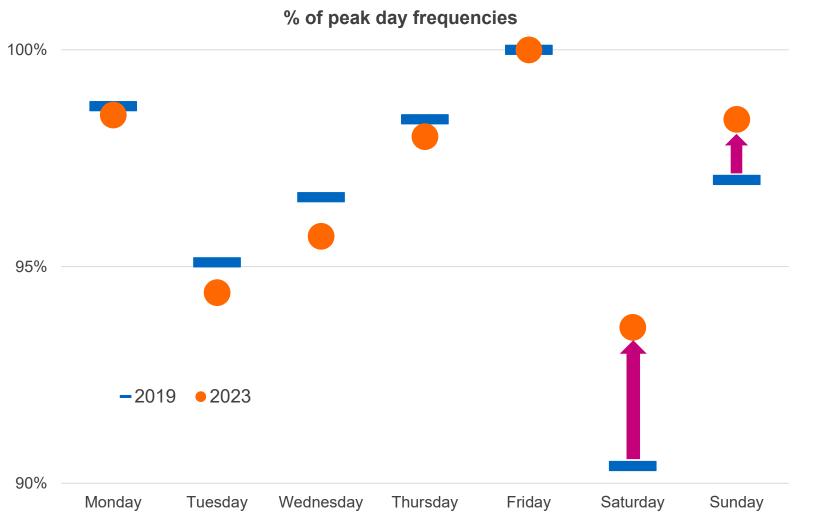
LCC growth **Network flexibility**

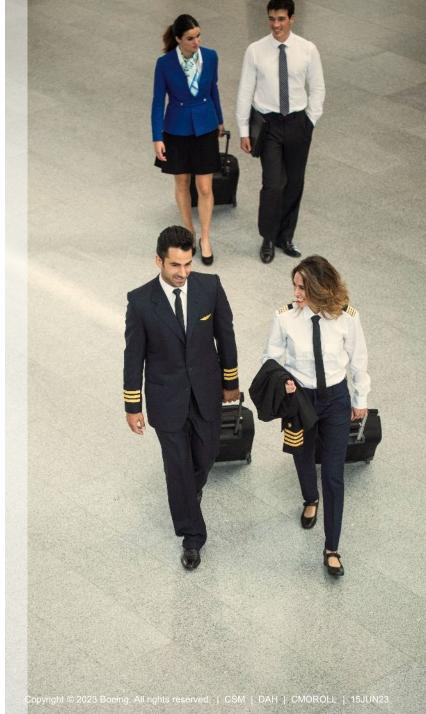
Cabin optimization

Net zero



Airlines adapting to evolving demand







Airlines deploying more premium cabin seating





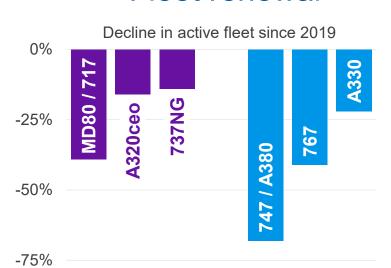
Airlines prioritizing sustainability initiatives







Fleet renewal



Increased SAF sourcing

300+ million liters produced in 2022

130+ renewable fuel projects announced

57 offtake agreements announced since 2022

Technology investment

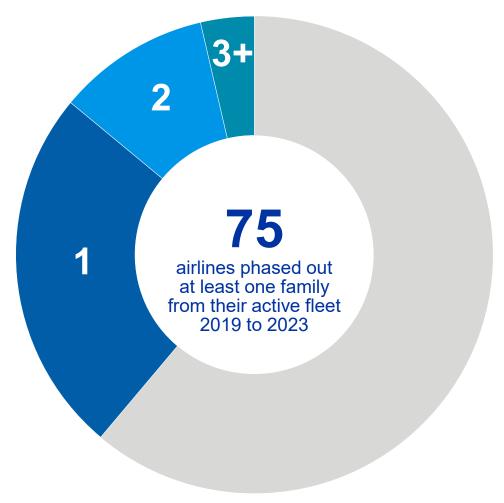


SOURCE: IATA

Fleet trends **Simplification Pent-up replacement** Regional jet headwinds **Disruptive technology**

Airlines simplifying fleets







Fleet renewal underway

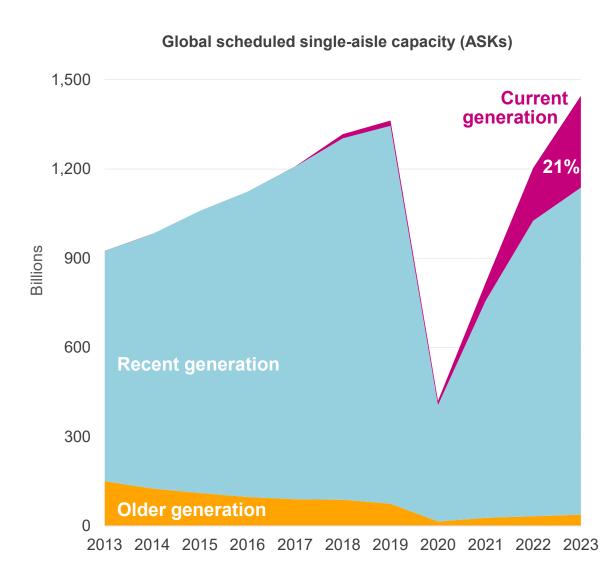




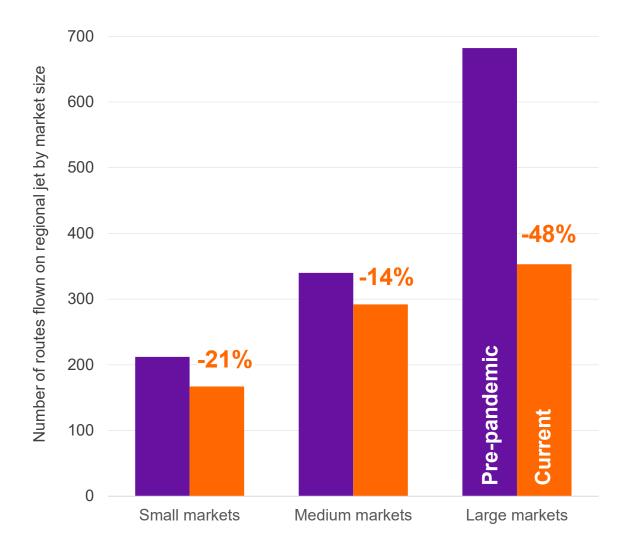
SOURCES: Cirium Fleets Analyzer and Boeing Analysis *1% of 2019 has been converted to freighters

Single-aisle fleet renewal gaining momentum



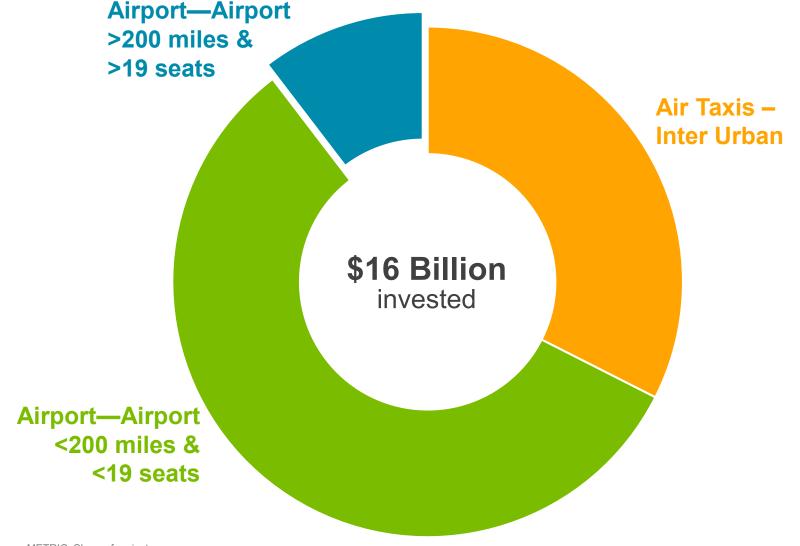


Regional jet capacity challenges





Disruptive investment below jet markets

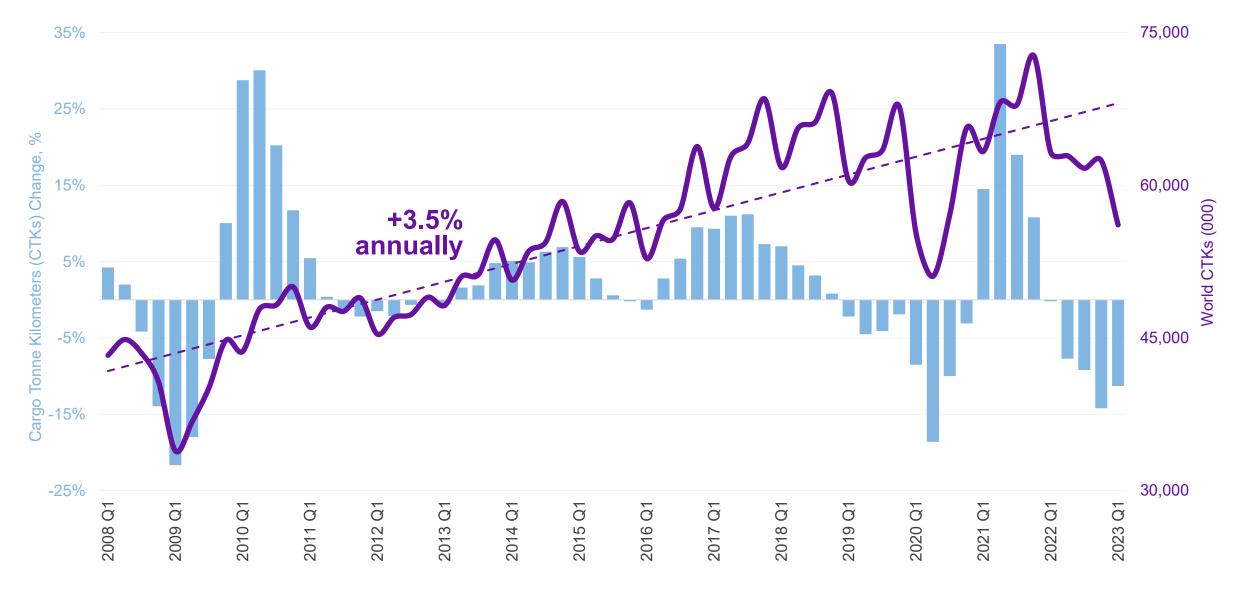




Complementary applications to airline business models and travel experience

Jets and turboprops <90 seats = ~2% of global, so minimal impact to single-aisle jet forecast

Air cargo: long-term growth amid cyclical volatility



Trade growth volatile near-term, outperforming GDP over time



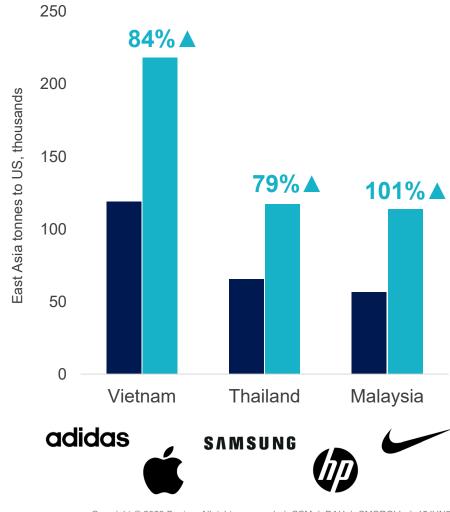


GDP +70% 2.6% annual growth

2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040



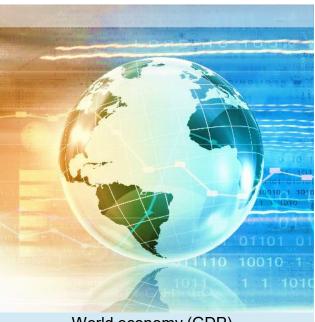
Evolving supply chains support air cargo growth



E-commerce boosting express freighter fleets



Steady long-term forecast driven by fundamentals









World economy (GDP)

Passenger traffic (RPKs)

Cargo traffic (RTKs)

US\$92T 2022

6 trillion 2022

260 billion 2022

24,500 2022

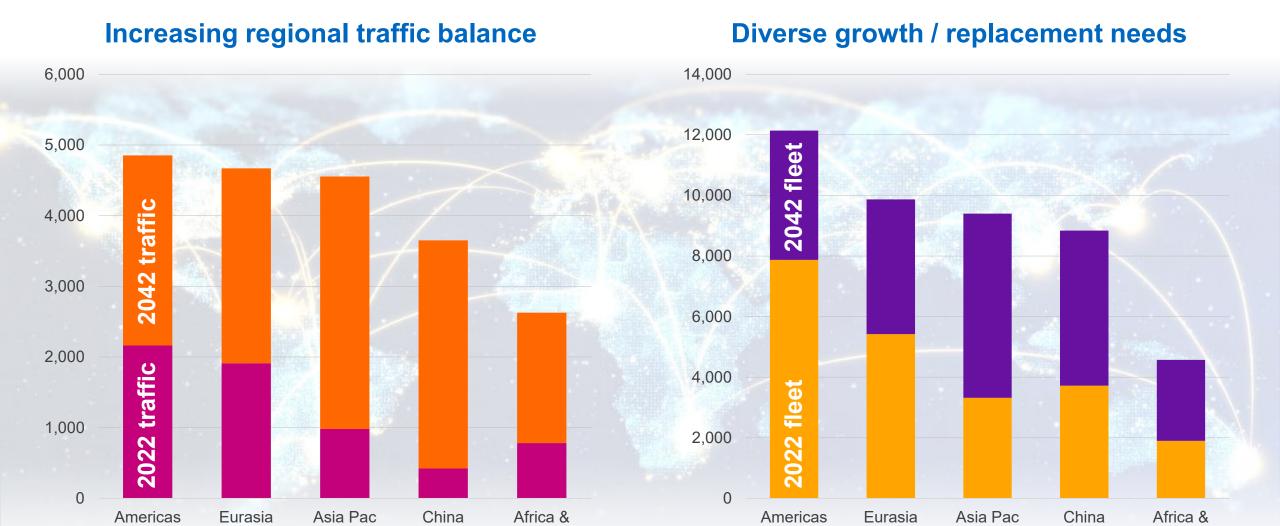
US\$155T by 2042

20 trillion by 2042

630 billion by 2042

48,600 by 2042

Air travel demand drives passenger fleet needs

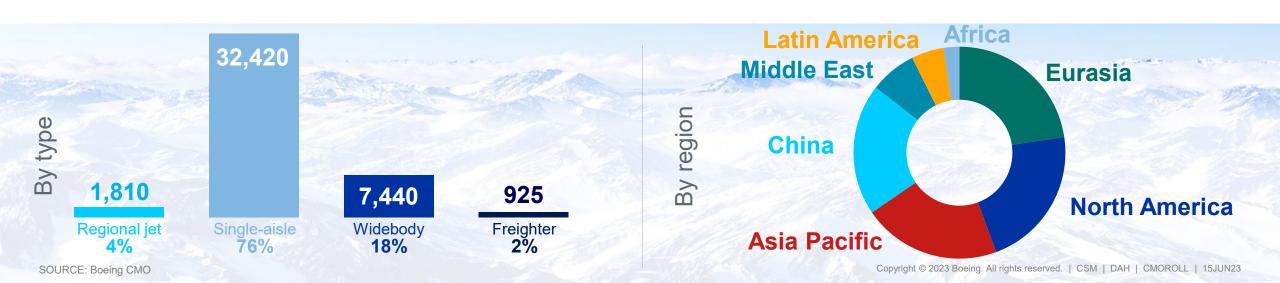


Middle East

Middle East

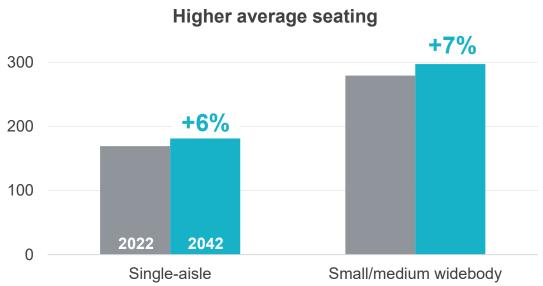


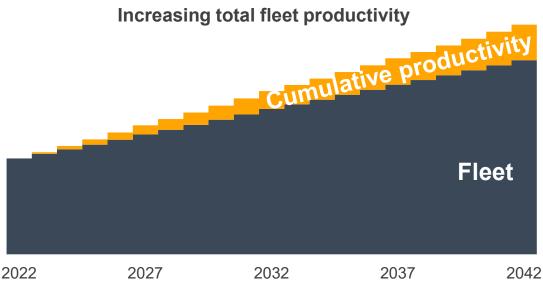
Airlines will need 42,595 new airplanes over 20 years



Future fleet would be ~20% larger without productivity improvements







Global fleet will double, with half of deliveries for replacement







Growing freighter fleet supporting supply chains, express demand

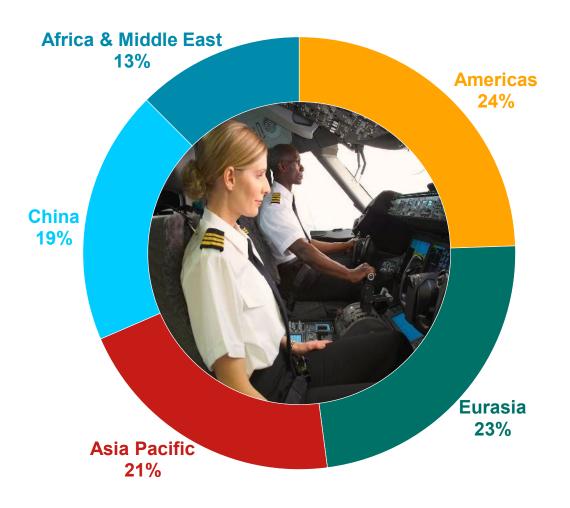


Growth and replacement drive services and labor needs

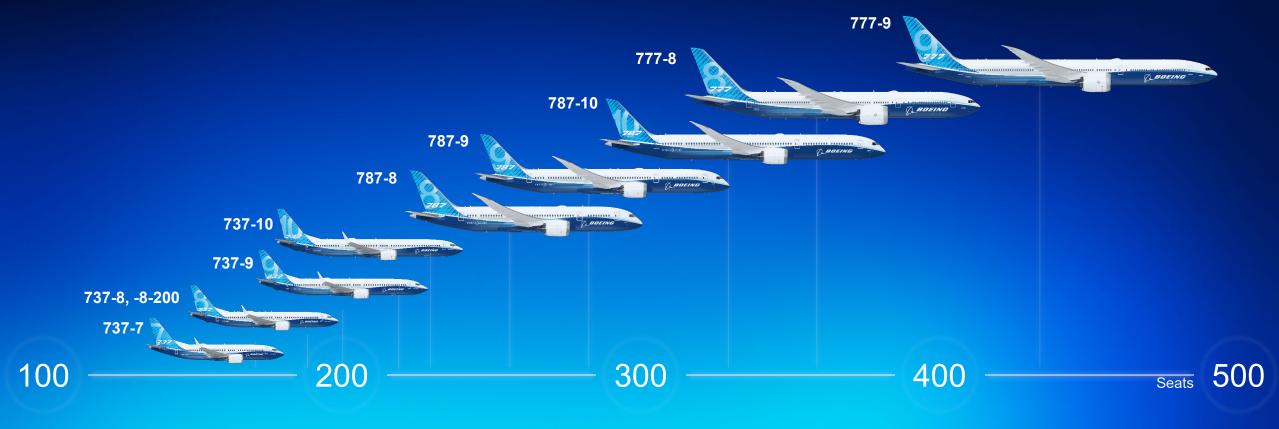
\$3.8T in Services



2,277,000 New Personnel



Versatility key to future aircraft market needs



737 the most versatile single-aisle family 787 the only complete widebody family 777X
the next long-haul
market leader

() BOEING