

Cargo Market Update and Forecast

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Global Air Cargo Market Update

Industry Trends

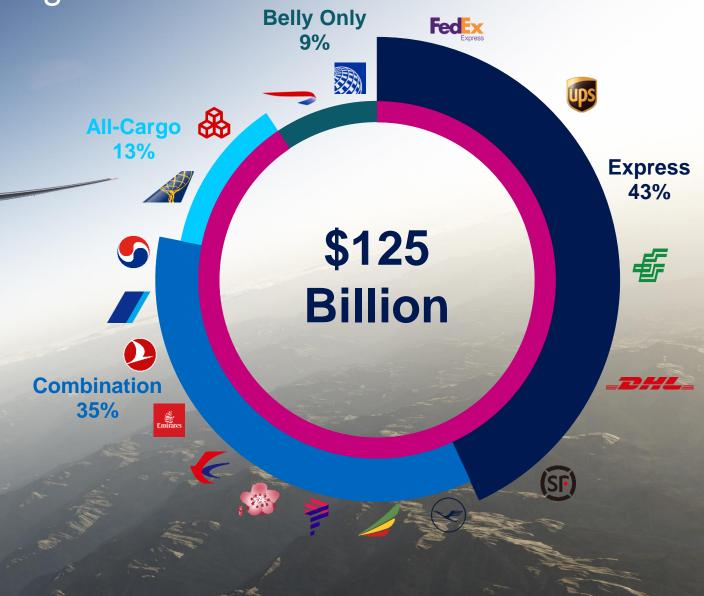
World Air Cargo Forecast, 2024-2043



Freighters play a key role in air cargo



of industry cargo revenues are generated by airlines operating freighters

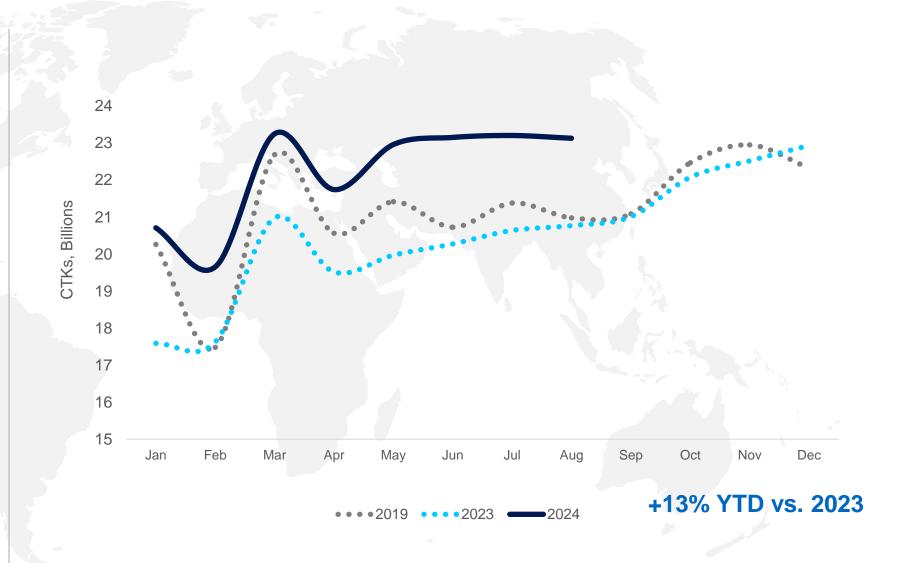


Global air cargo traffic continuing strong growth

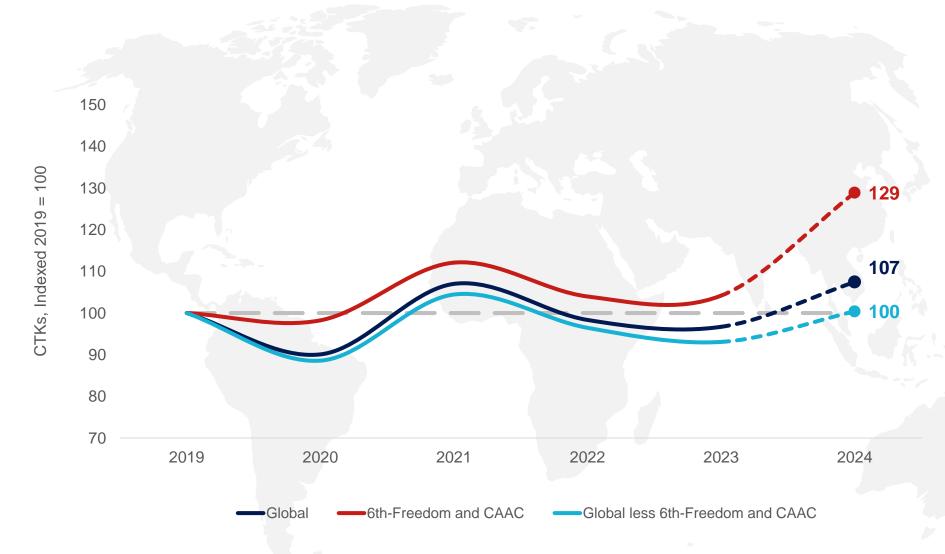
In Jan-Aug 2024, traffic was up

+7%

vs. the same period in 2019



Sixth-Freedom and Chinese carriers lead market growth

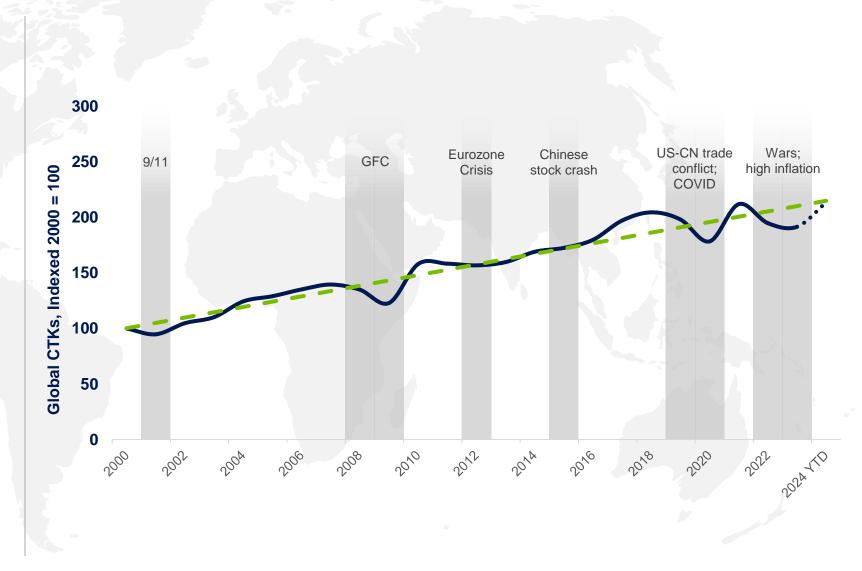


The world air cargo market is resilient

Air cargo has grown an average of

+2.7%

per year over the last twenty years

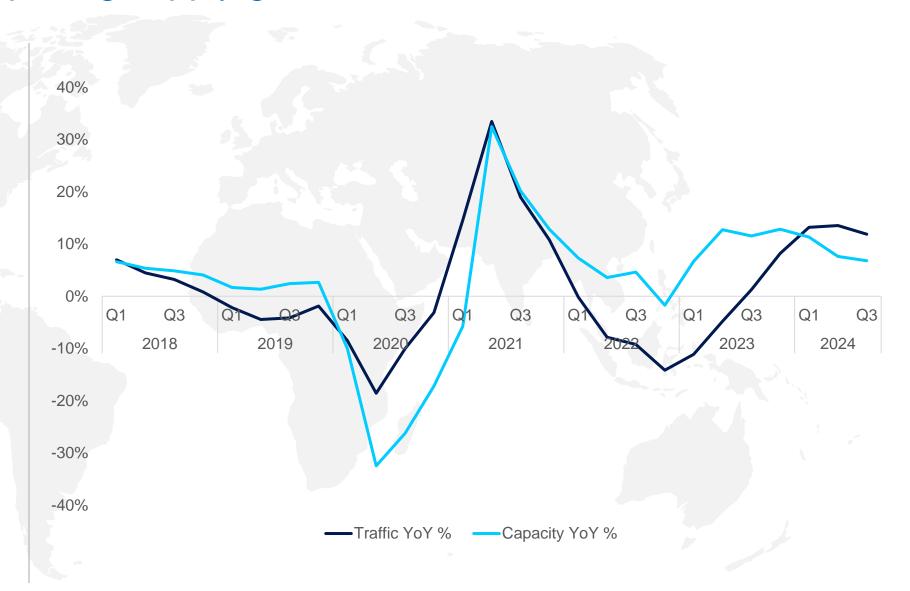


Demand growth outpacing supply growth

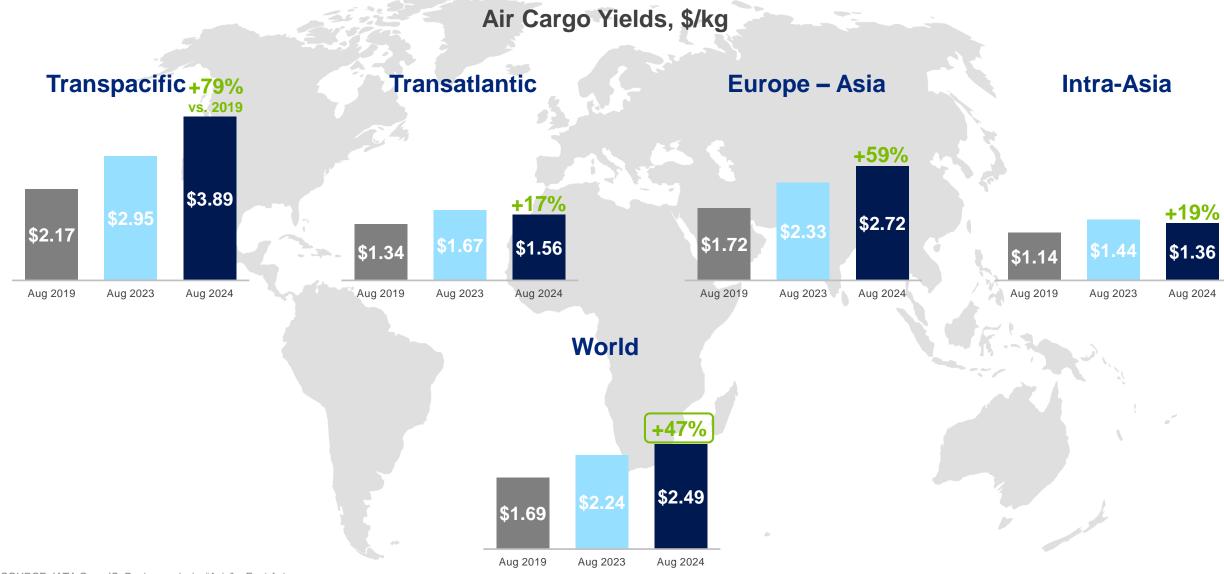
Global load factors are up

+1.3 points

year-over-year



Air cargo yields remain elevated on major flows





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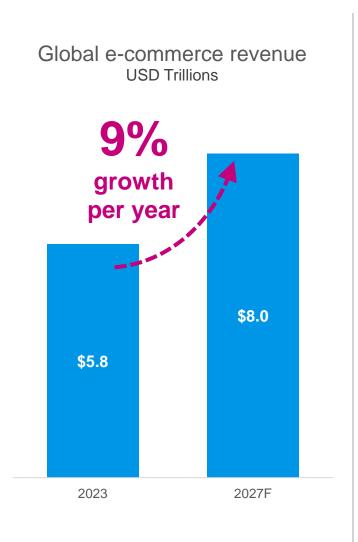
The air cargo market continues to evolve

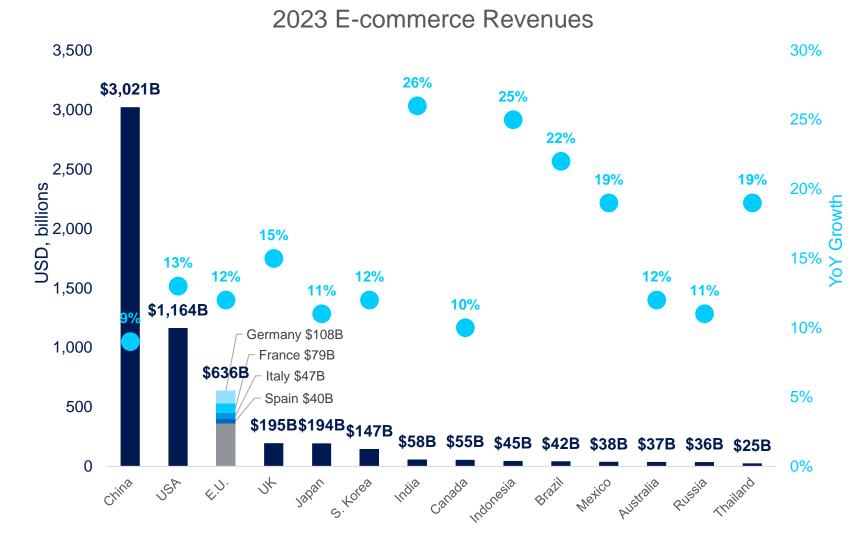


The air cargo market continues to evolve



E-commerce is an important contributor to global air cargo growth



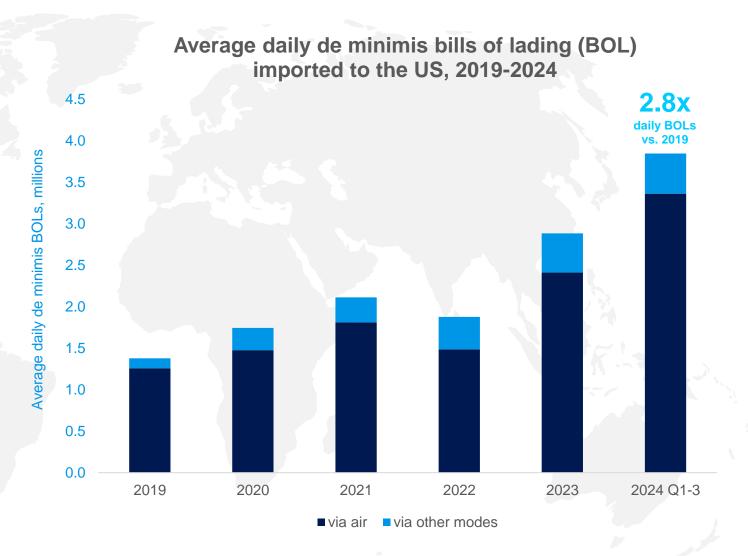


Unprecedented growth of de minimis e-commerce fueling air cargo surge

Every day, approximately

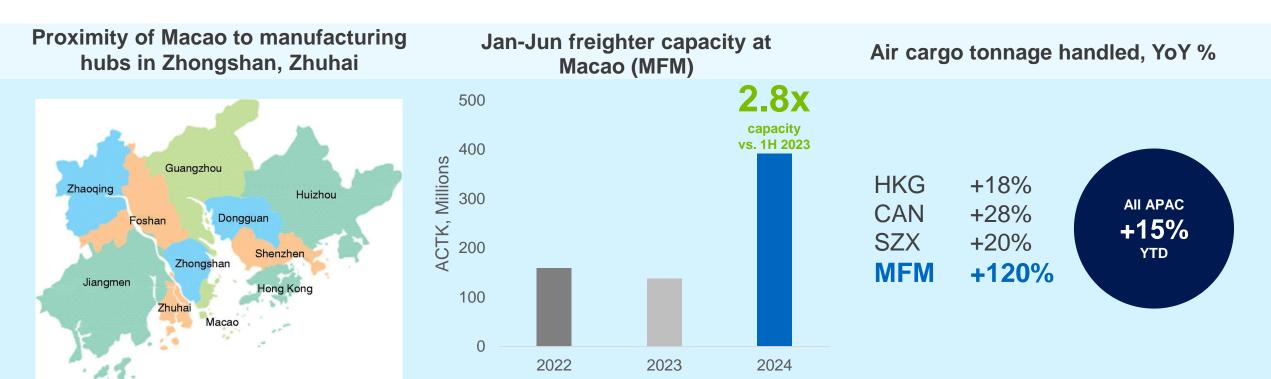
6,000 tonnes

of de minimis e-commerce volumes are flown out of China and Hong Kong



Current dynamics in Asia demonstrate reliance of e-commerce on air cargo

Rise of Macao as an air cargo hub



The air cargo market continues to evolve



Supply chain diversification is reconfiguring cargo flows out of East Asia









Manufacturers are looking to ASEAN,
Taiwan, India and
Mexico to diversify supply chains in response to increasing risk

Air Cargo Tonnage to US, 2017 vs. 2023



The air cargo market continues to evolve



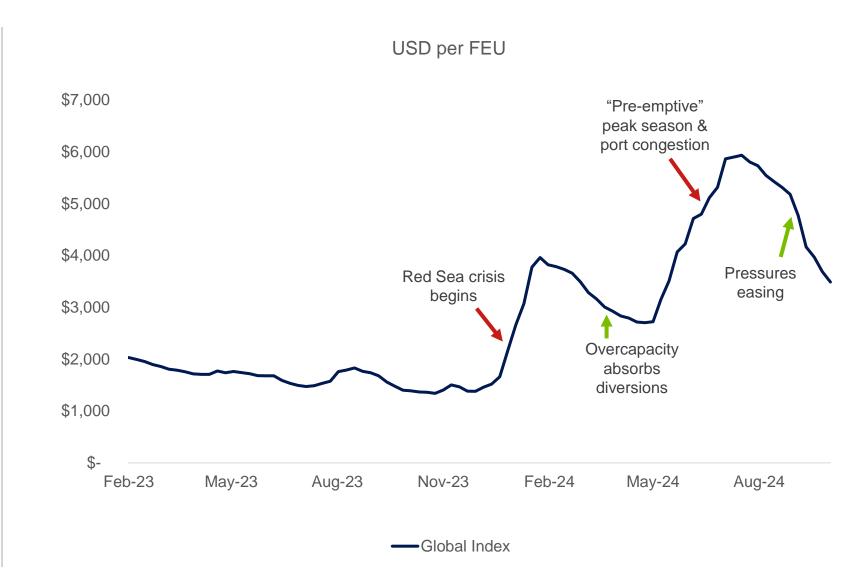
Red Sea disruptions continue to impact the containership market

Tight capacity

Strong demand

Shipper frontloading

Operational disruptions



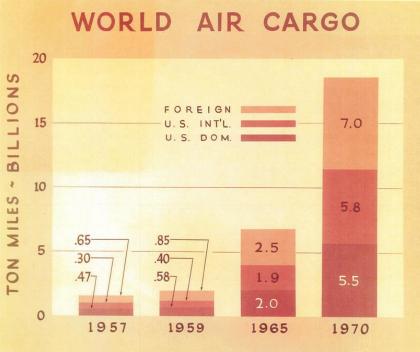


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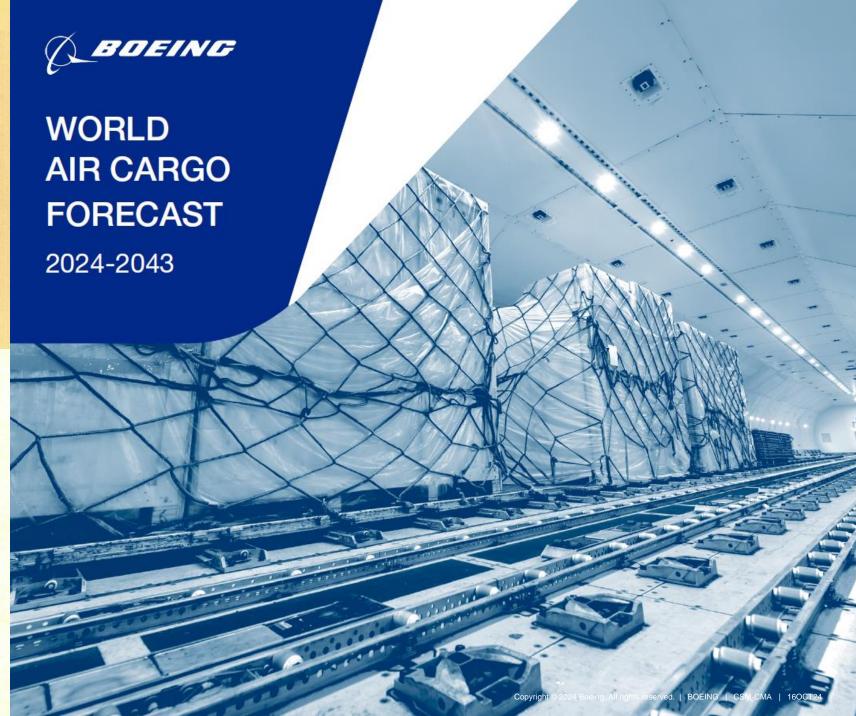


WORLD AIR CARGO

Air cargo developments point the way to a tremendous new market for jet transports. The fast-growing, but still small, air cargo industry of 1957 - 1959 will have increased sharply by 1965 in all markets. From that point on, the world air cargo business will assume even more impressive proportions, particularly in the foreign and U.S. - international areas.

The vastly superior work-rate and economics of the jet transport foretell that most of the cargo planes to be procured during 1965 - 1970 will be "pure jet" types.

Needless to say, Boeing will be increasingly active in this field.



Asian markets will lead air cargo growth over the next 20 years





2.6%World GDP

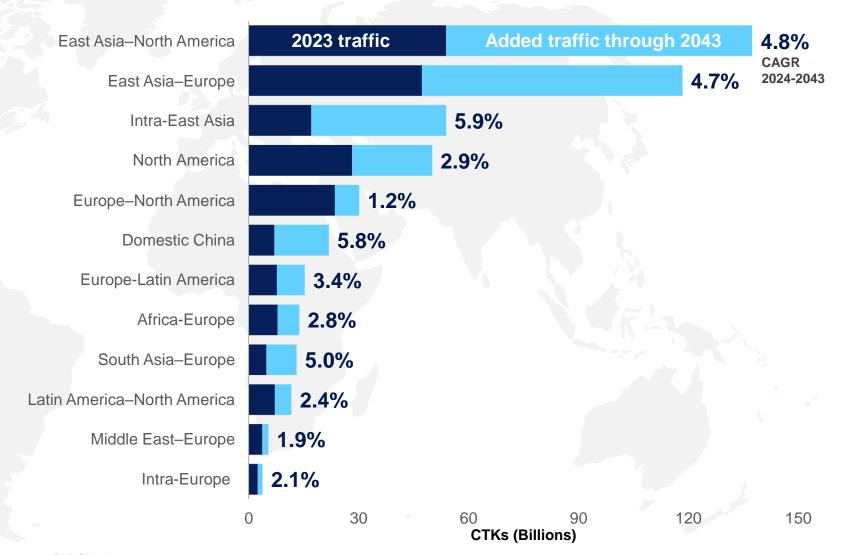


4.1% Cargo traffic



2.6% Freighter fleet



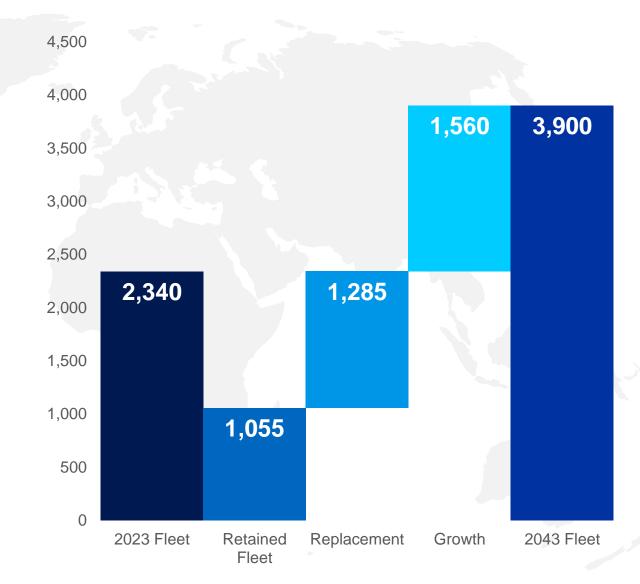


New freighters will boost efficiency and support demand growth

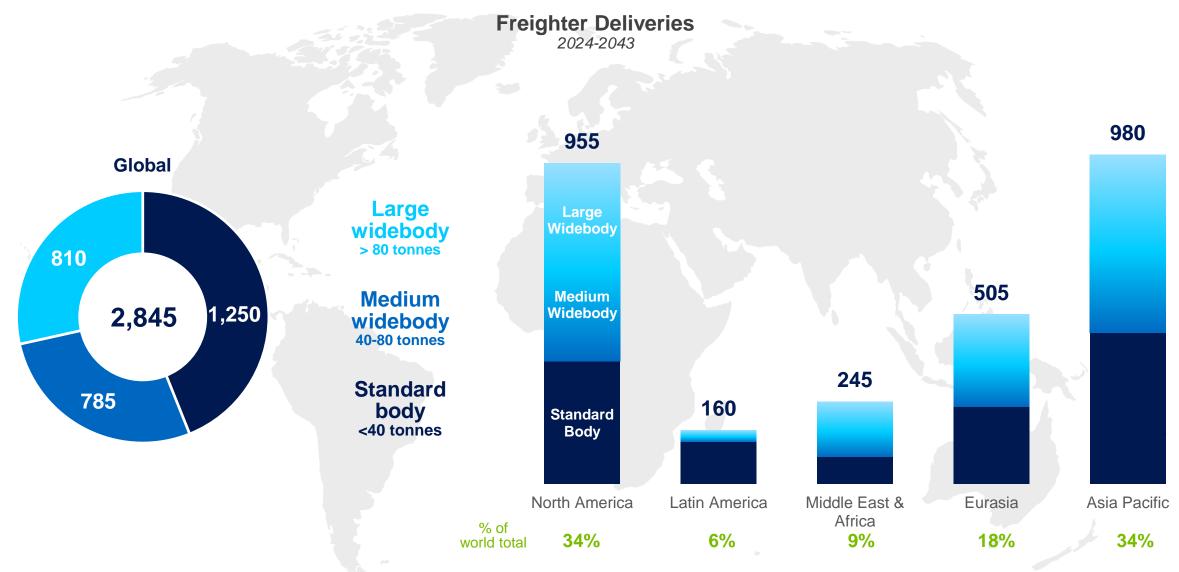
Of the 2,845 new freighter deliveries,

55%

will be for fleet growth



Asia Pacific to lead freighter deliveries through 2043





The 777F and 777-8F lead the widebody market



777-8F is the natural 747-400F replacement



Lower operating costs per tonne

Standard rules, maximum structural payload, 3,000 nmi mission, \$3.00 USD/gal fuel, 2022 US Dollars, 700 trips/year, 3% fuel factor for 747-400F

Lower fuel use per tonne

Identical payload capability

More design range



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