



# Sustainability for Air Cargo Growth

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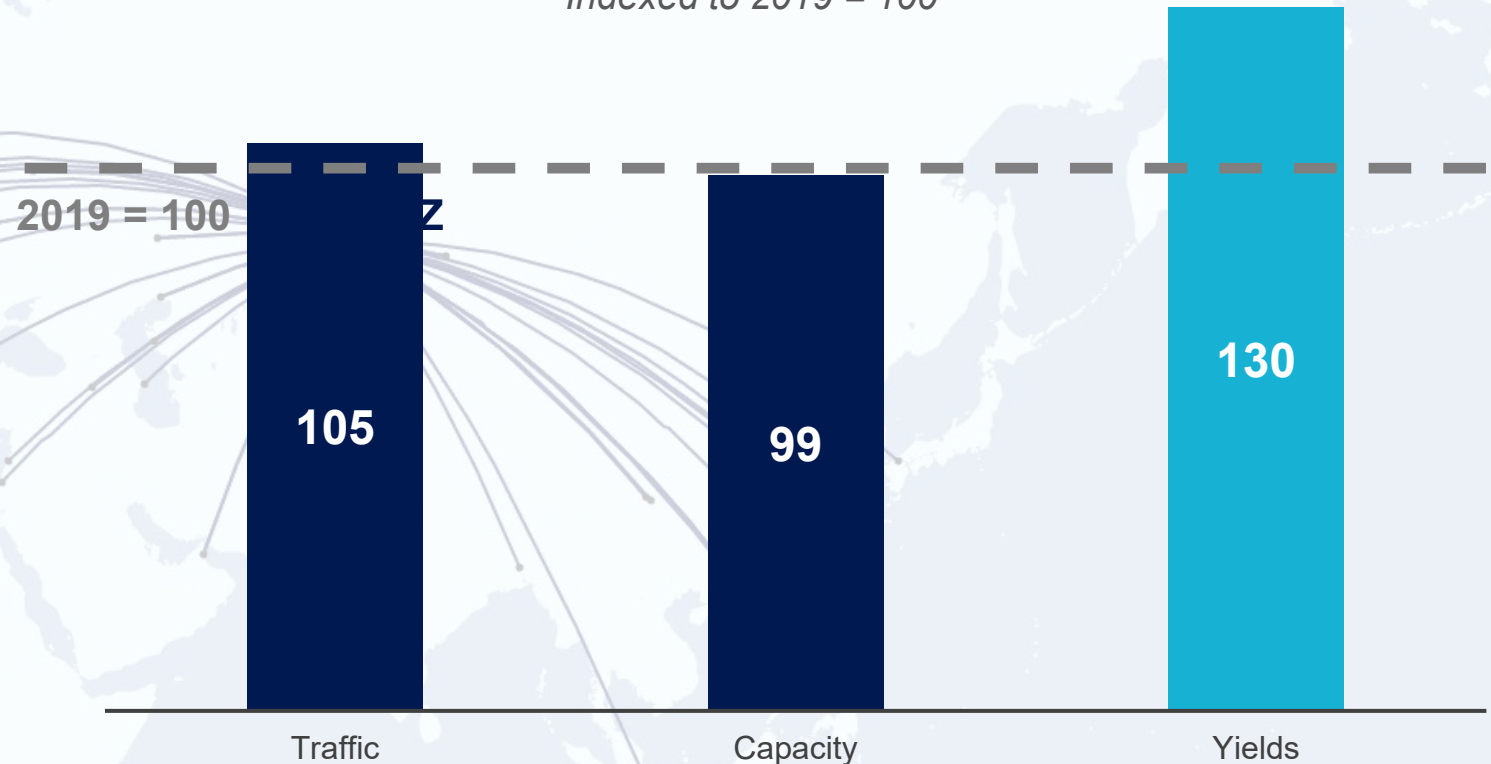
Boeing Commercial Airplanes

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# Central Asia is at the heart of the Europe-East Asia trade lane

- Traffic boosted by e-commerce volumes
- Supply and demand returning to balance
- Sixth-freedom carriers gaining market share
- Forecasted growth of 5.3% per year through 2042

Europe-East Asia air cargo performance 2024 YTD  
Indexed to 2019 = 100



# Long-term drivers of freighter demand

## Trade, GDP and industrial production

**3.0%**  
World trade



**2.6%**  
World GDP



**2.2%**  
Industrial production



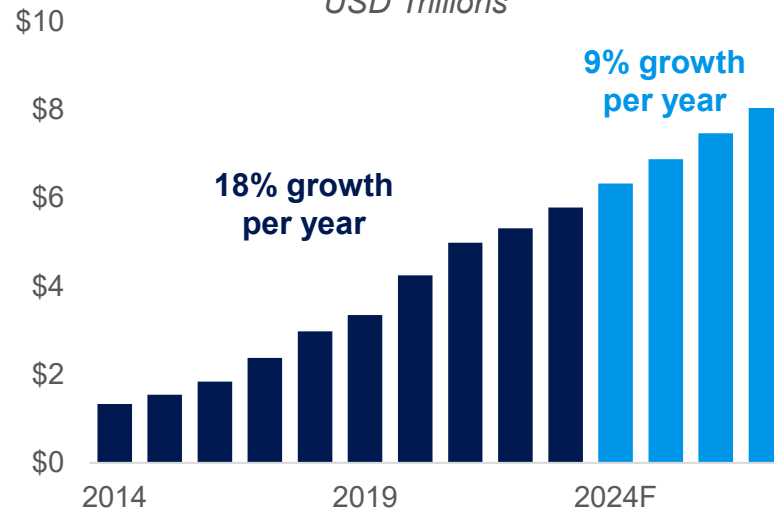
### Central Asia GDP growth

**3.3%**

per year

## E-commerce growth

Global retail e-commerce sales  
USD Trillions



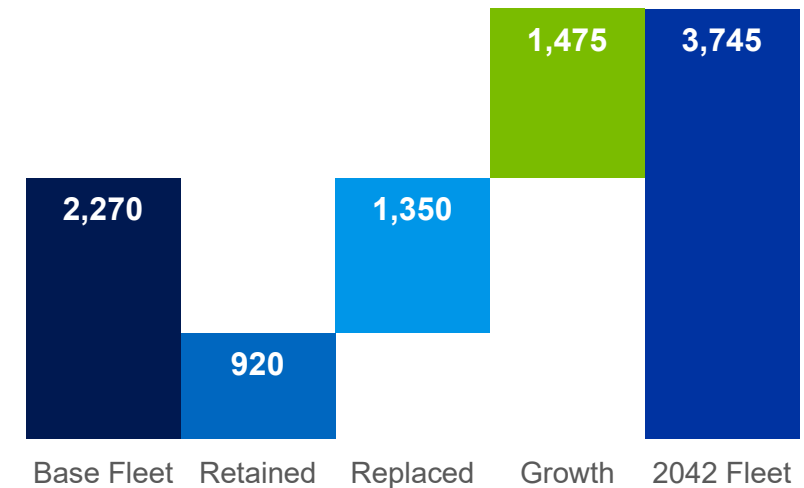
### Central Asia e-commerce growth

**20-30%**

per year

## Fleet replacements and growth

Global freighter fleet



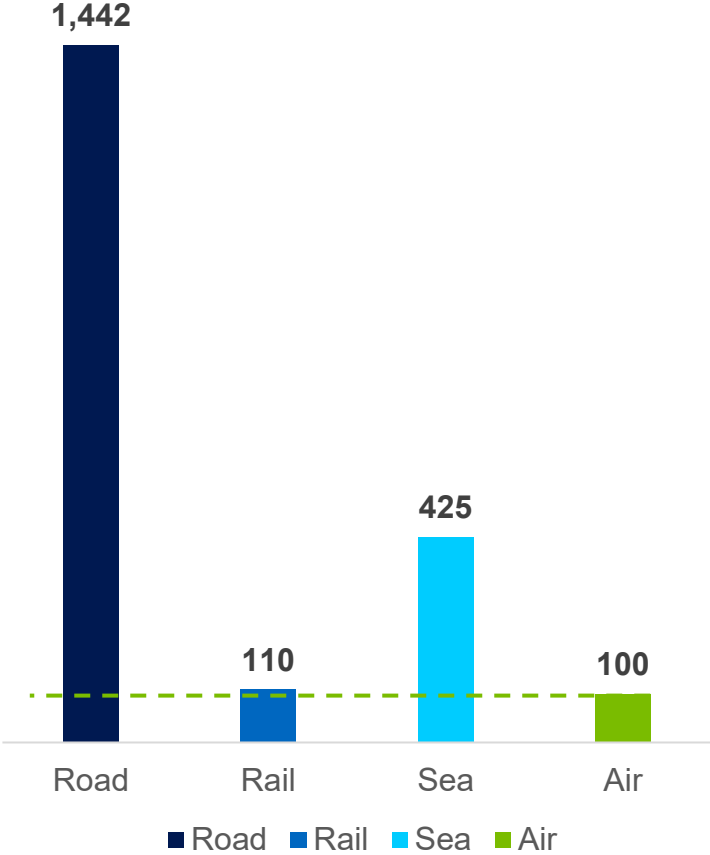
### Central Asia freighter replacements

**~70%**

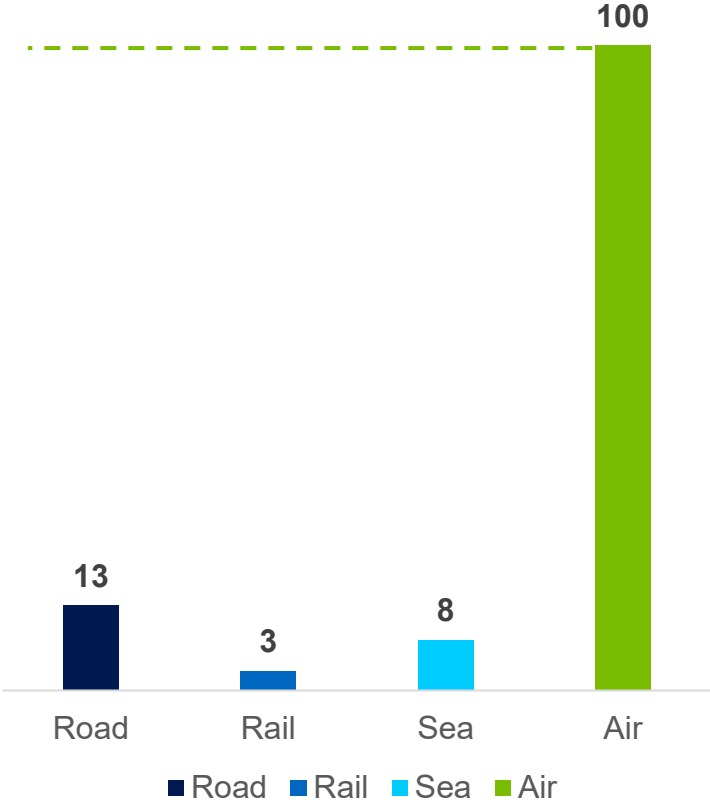
of today's in-service fleet

# Air cargo has the lowest emissions per unit value of cargo moved

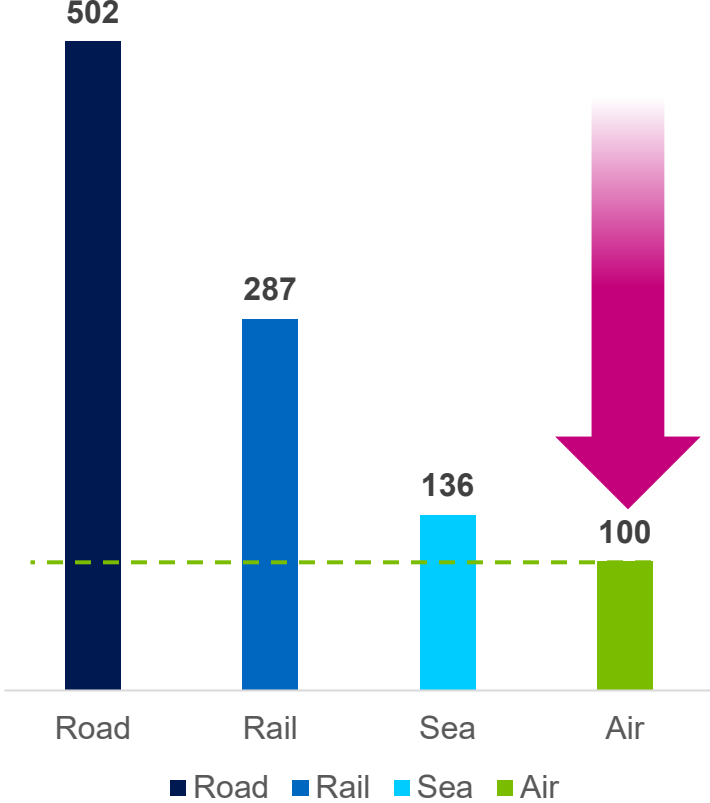
Total CO<sub>2</sub> Emissions



CO<sub>2</sub> Emissions per CTK



CO<sub>2</sub> Emissions per USD-Value Cargo-Kilometer



SOURCE: ITF Transport Outlook 2021, S&P GTAS

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# Four pillars of sustainable aviation



**Fleet  
Renewal**



**Operational  
Efficiency**



**Renewable  
Energy**



**Advanced  
Technology**



# The most efficient freighter family for every segment

**777-8F**

**777F**

**767-300F**

**767-300BCF**

**737-800BCF**



## Large Widebody

### Intercontinental markets:

- Long-range
- Large volume
- High-density
- Efficiency and versatility

## Medium Widebody

### Express/regional markets:

- Hub-and-spoke
- High-value
- Time-sensitive
- Express/e-commerce

## Standard Body

### Intra-regional markets:

- Shorter-range
- Lower utilization
- Domestic operations
- Emerging markets





**15-30%**  
Reduction  
in CO<sub>2</sub>

**10-60%**  
Smaller  
Noise Footprint

**The Boeing Freighter Family is cleaner and quieter**



# Boeing Converted Freighters are more environmentally friendly

Providing passenger airplanes second lives as freighters



## Reduce waste

Reuse airplanes

## Repurpose

More years of service

## Recycle

Serviceable components



# Boeing Converted Freighters are more efficient



**15-20%**  
Reduction in CO<sub>2</sub>

**CAEP/8**  
Compliant NO<sub>x</sub>

**10-30%**  
Smaller Noise Footprint

