

An aerial photograph of an airport and surrounding city. The airport runways and taxiways are visible in the center-left. To the right, a city is shown with a river. Several areas are highlighted with semi-transparent colored overlays: a green area near the airport, a yellow area in the city, a cyan area near the river, and a red area further east. The overall image has a sepia or brownish tint.

Global Market Forecast

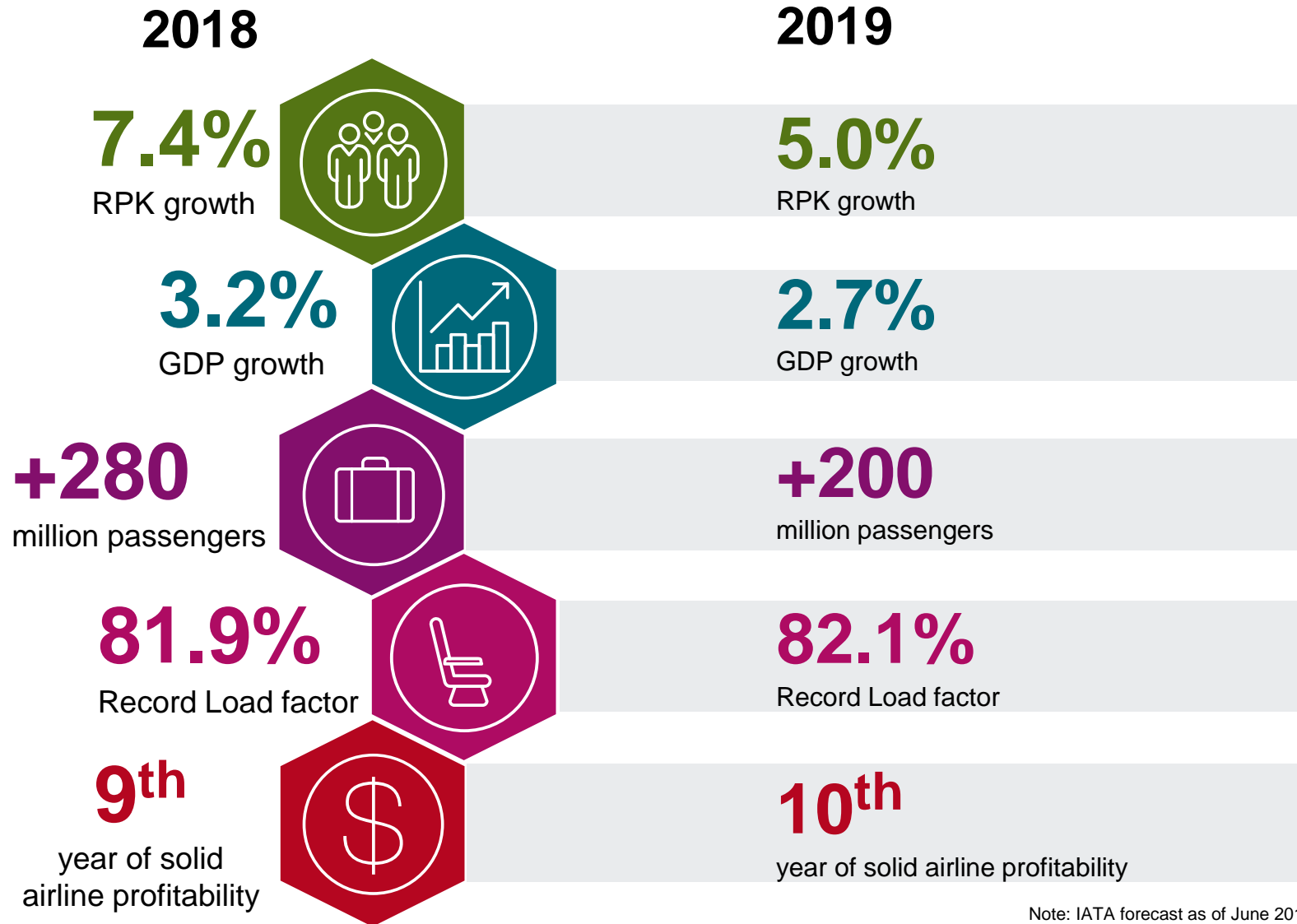
# Cities, Airports & Aircraft

2019-2038

Christian Scherer  
Chief Commercial Officer  
Head of Airbus International

**AIRBUS**

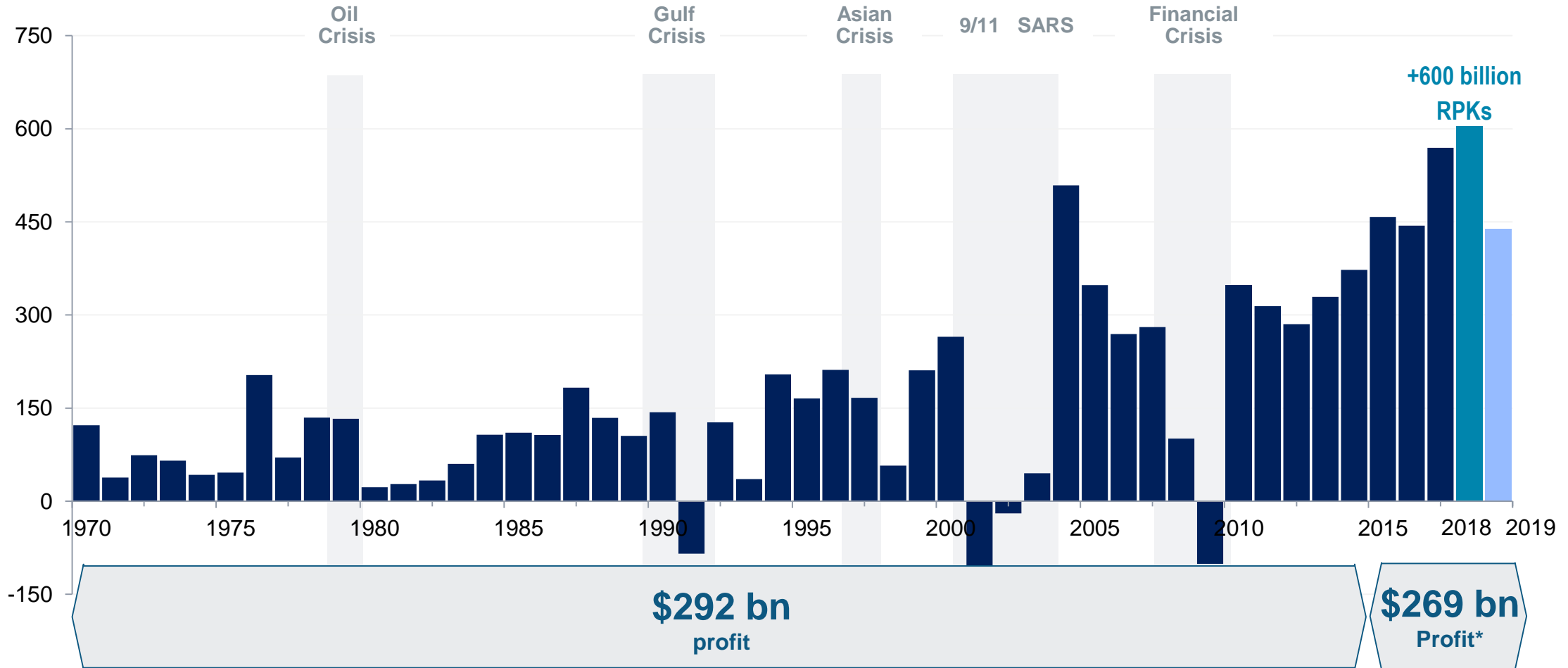
# 2018 was a good year and 2019 looks to be another solid year



Note: IATA forecast as of June 2019  
Source: ICAO, IATA, IHS Markit, Airbus GMF 2019

# 10 years of strong growth and solid profitability

World annual added traffic (billion RPKs)



\* IATA Forecast, June 2019  
Source: ICAO, Airbus GMF 2019

# Drivers for Growth

## Urbanisation

- 2000:

**47%**

of World population in urban areas

- 2018:

**55%**

## Wealth

- 2000:

**~900 million**

emerging countries Middle-Class

- 2018:

**2.7 billion**

## Liberalisation

- On average

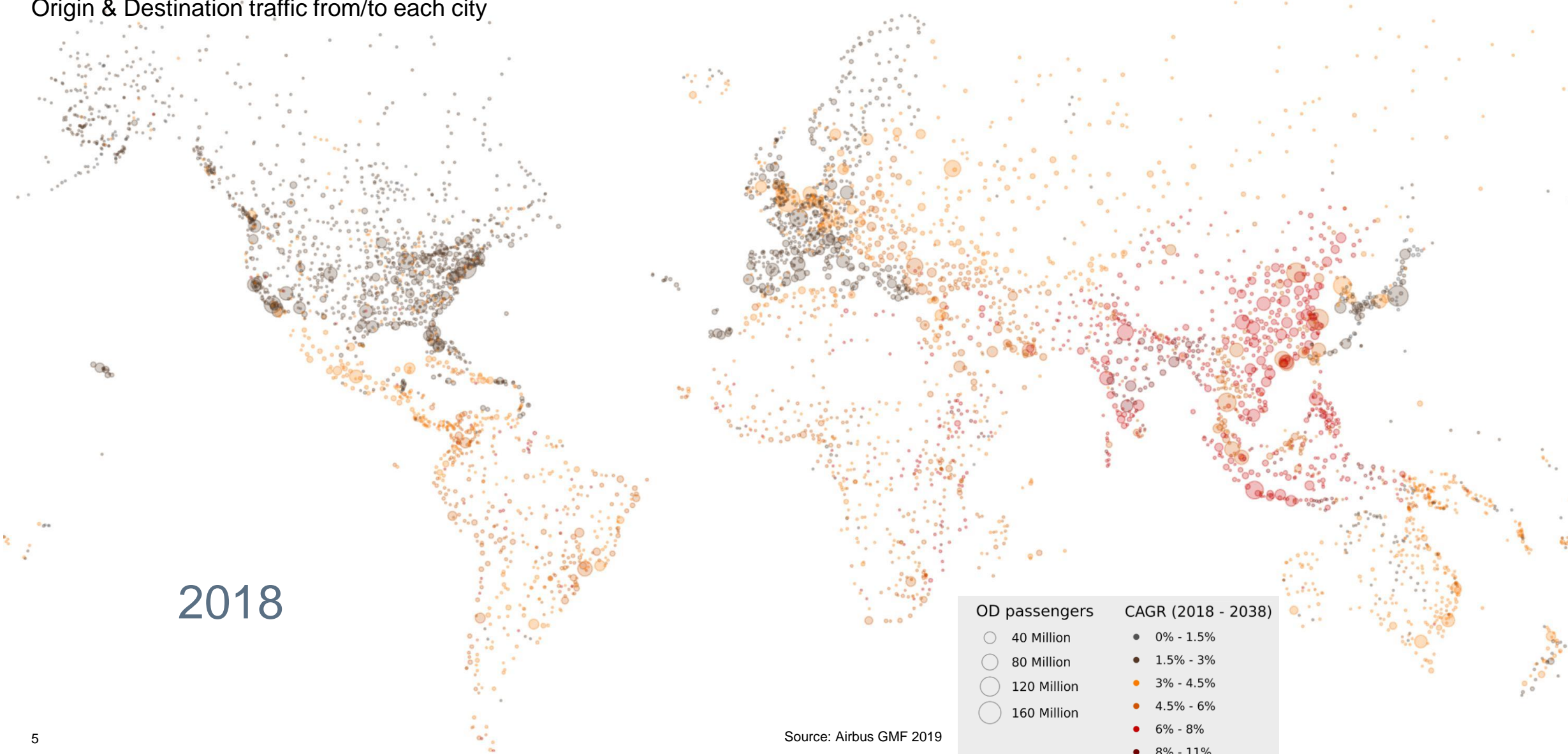
**700 net routes**

added each year since 2000

# Air transport becoming more balanced and resilient

Origin & Destination traffic from/to each city

2018



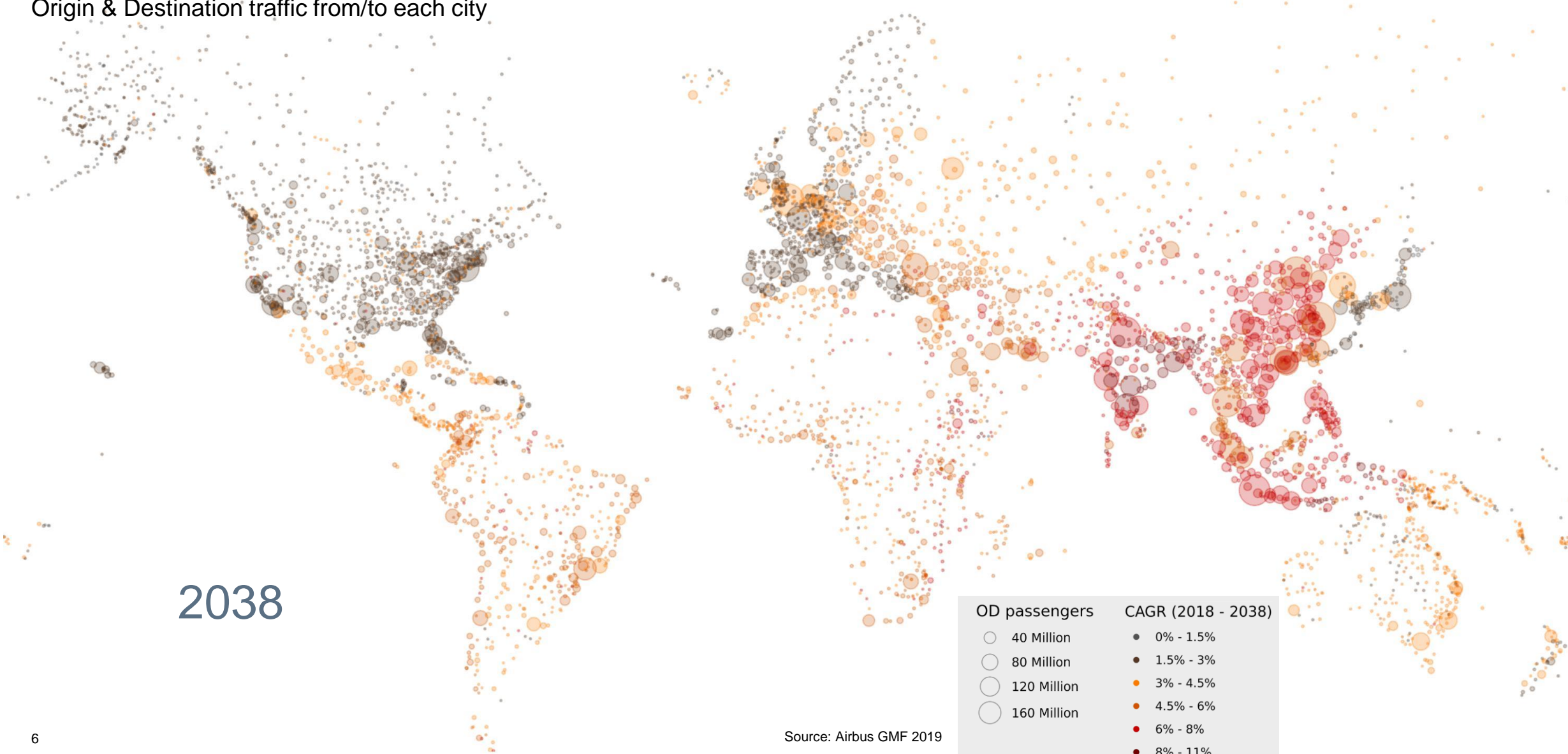
OD passengers	CAGR (2018 - 2038)
○ 40 Million	● 0% - 1.5%
○ 80 Million	● 1.5% - 3%
○ 120 Million	● 3% - 4.5%
○ 160 Million	● 4.5% - 6%
	● 6% - 8%
	● 8% - 11%

Source: Airbus GMF 2019

# Air transport becoming more balanced and resilient

Origin & Destination traffic from/to each city

2038

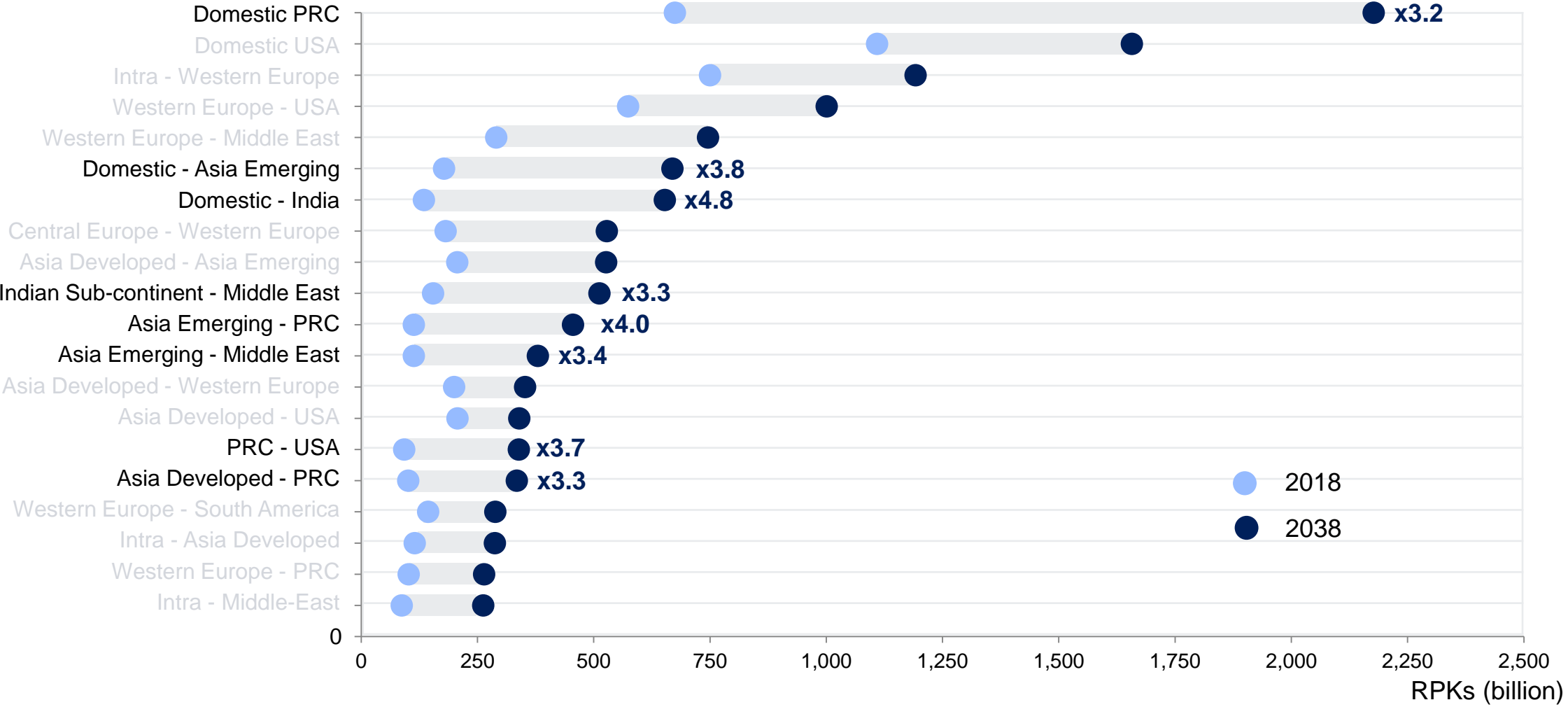


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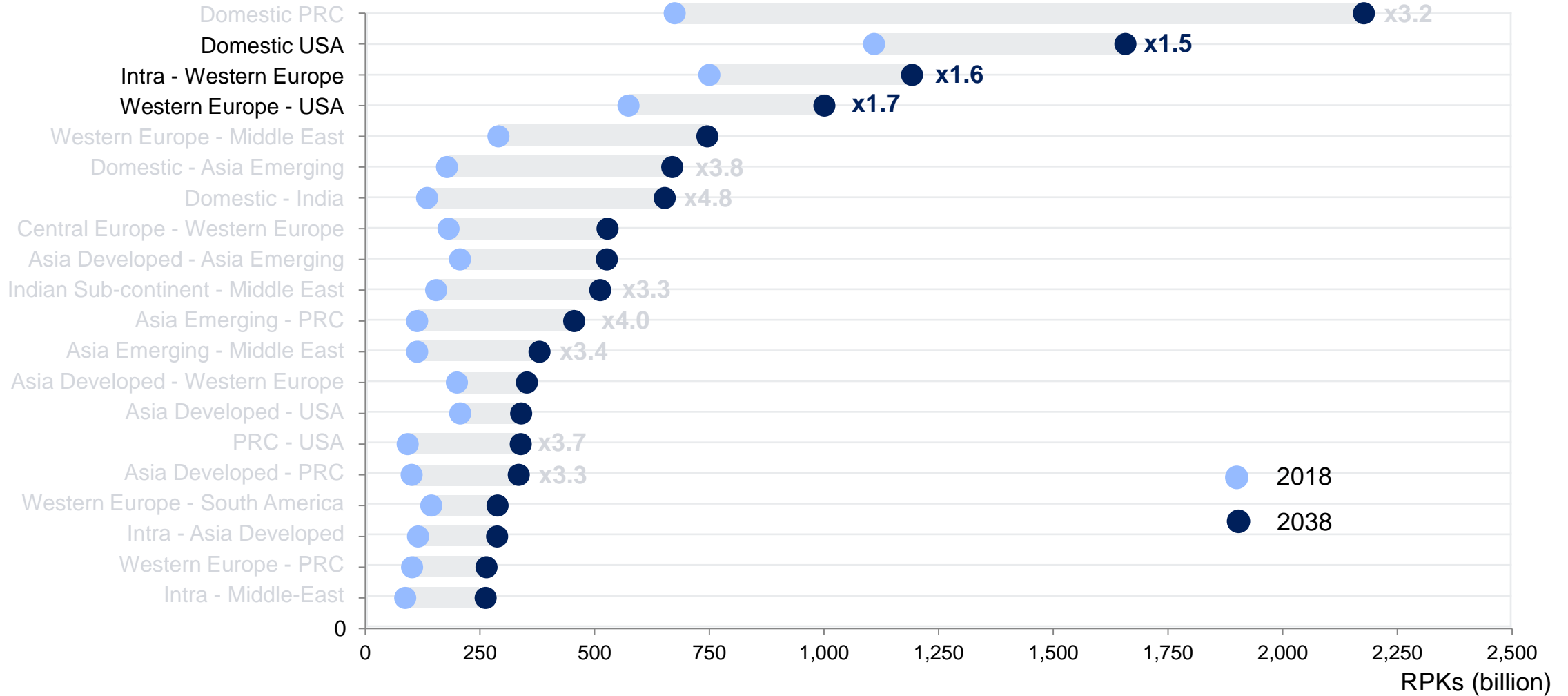
# Traffic is forecast to grow at 4.3% p.a.

Top 20 traffic flows (RPK)



# Traffic is forecast to grow at 4.3% p.a.

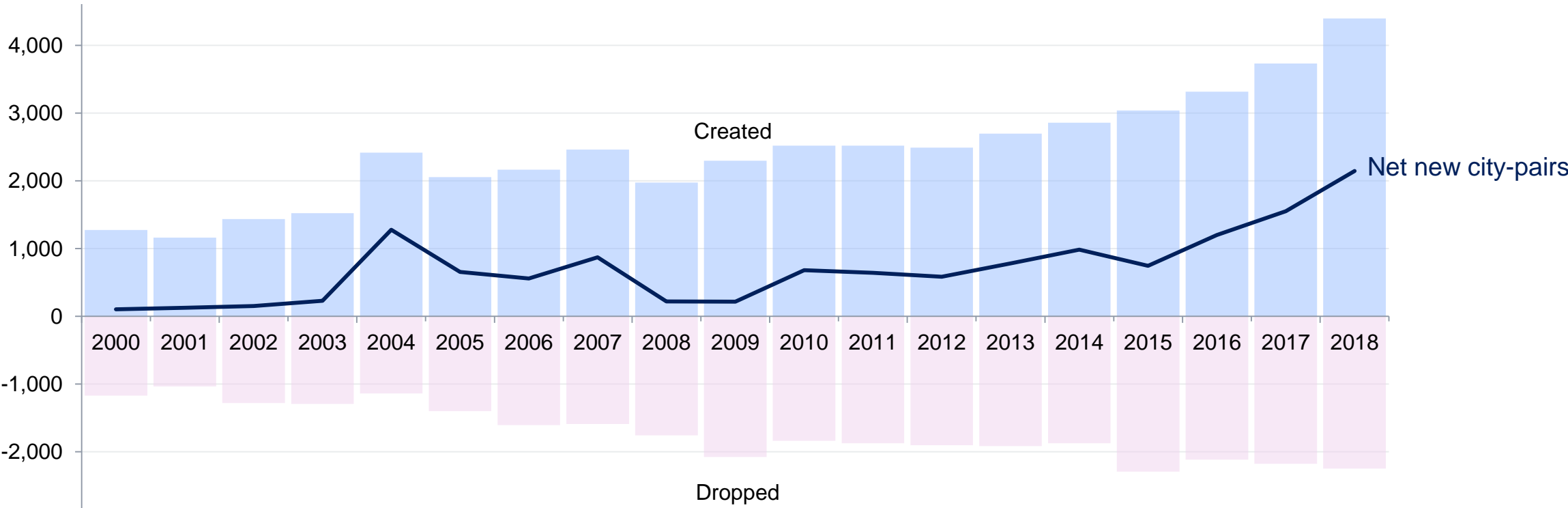
## Top 20 traffic flows (RPK)





# Networks are growing with more net new routes created

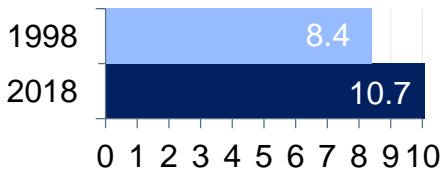
Nb. of city-pairs



# The air transport industry has delivered strong improvements in productivity



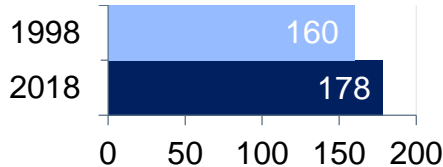
**Daily Utilisation**



**+2 hours/day**



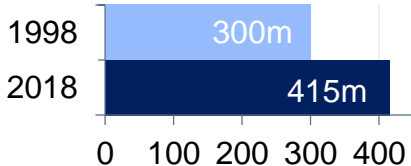
**Average Seats per Flight**



**+18 seats/flight**



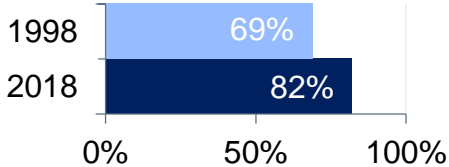
**RPK (m) per a/c**



**+40%**



**Load Factor**

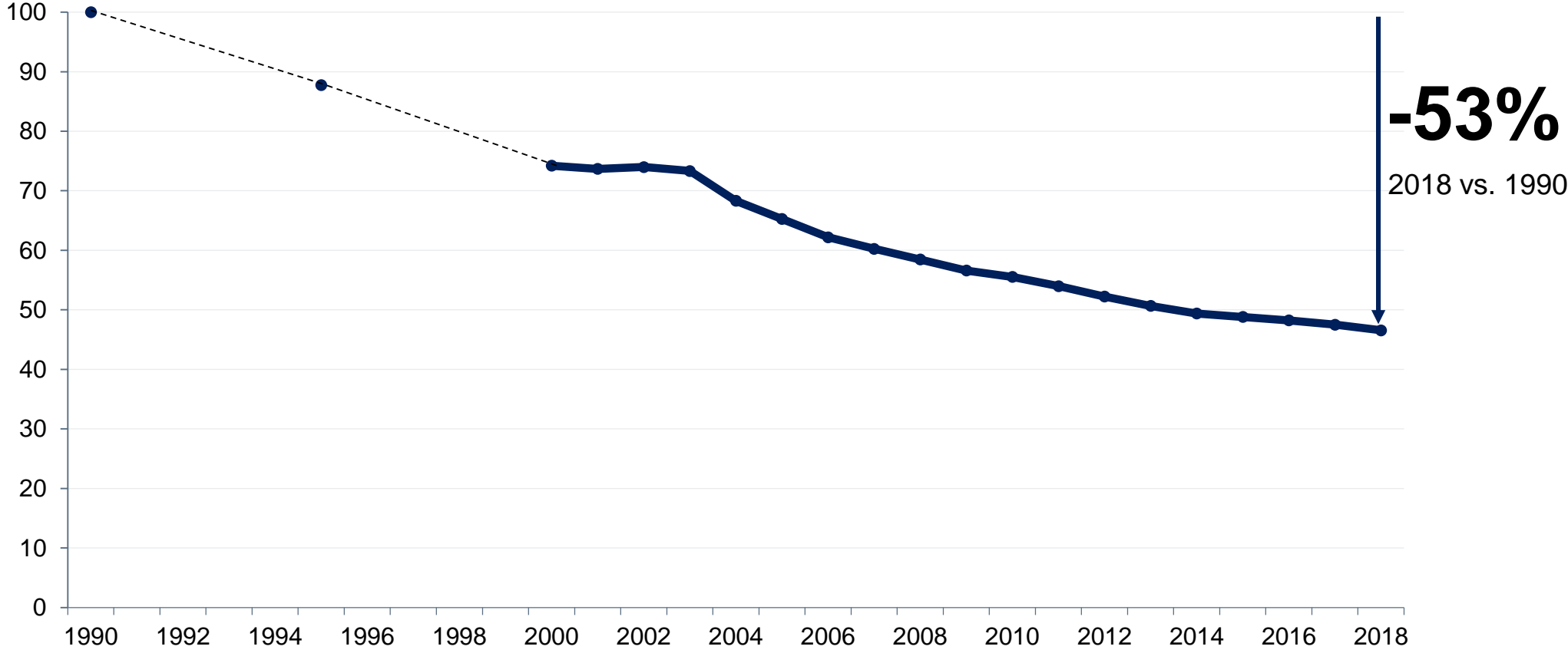


**+13pp**

# Improved efficiency has delivered continuous fuel burn and CO<sub>2</sub> reduction

## Fuel consumption & CO<sub>2</sub> emissions

Base 100 in 1990 based on Kilograms per RPK (avg.)

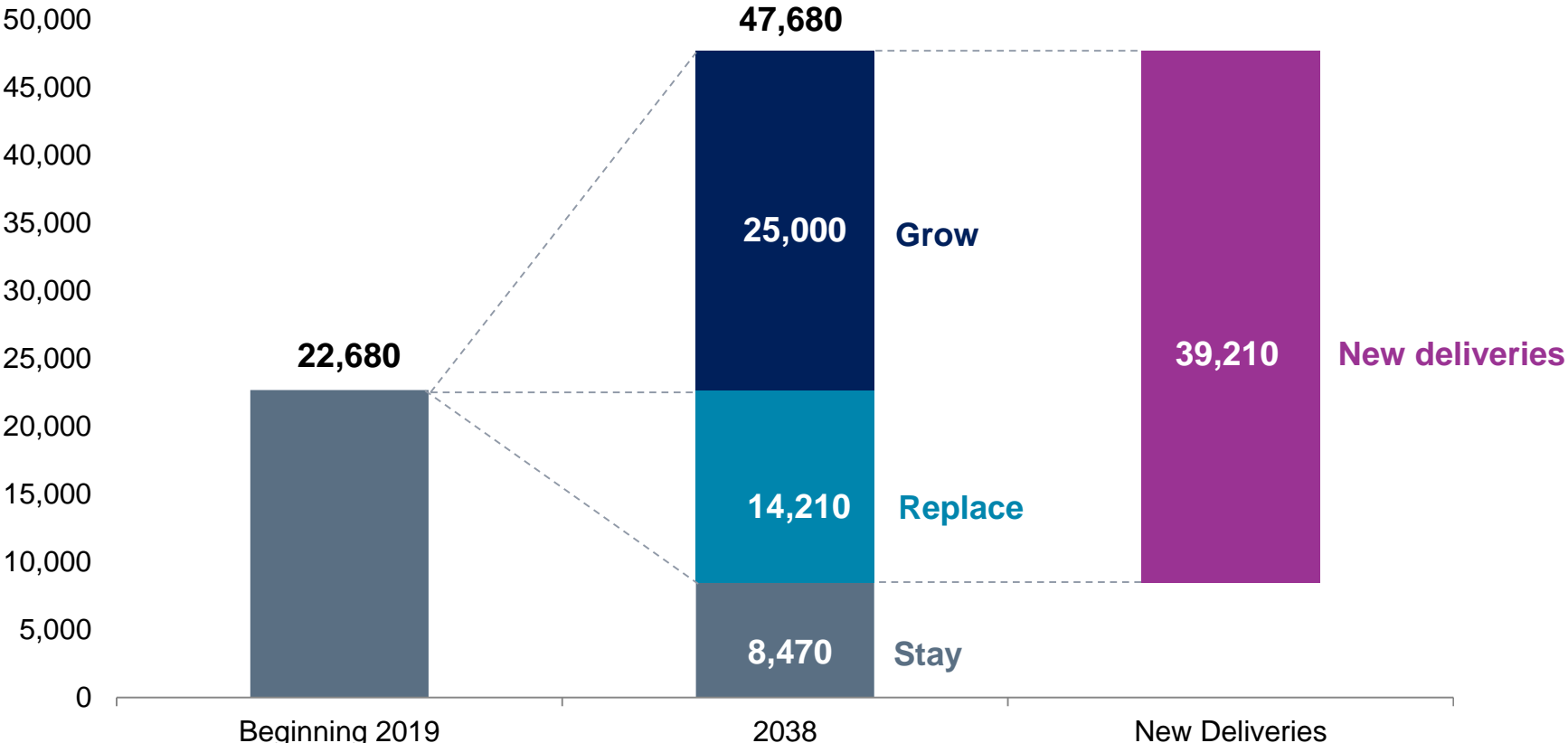


# Demand for ~39,200 new aircraft deliveries by 2038

	Airbus GMF18	Airbus GMF19
Gross Domestic Product 20-year CAGR	2.8%	2.8%
Passenger Traffic 20-year CAGR	4.4%	4.3%
Freight Traffic 20-year CAGR	3.7%	3.6%
Start fleet (Passenger & Freighter)	21,450	22,680
End fleet (Passenger & Freighter)	47,990	47,680
New Deliveries (Passenger & Freighter)	37,390	39,210

# 36% of new deliveries for replacement, 64% for growth

Number of aircraft

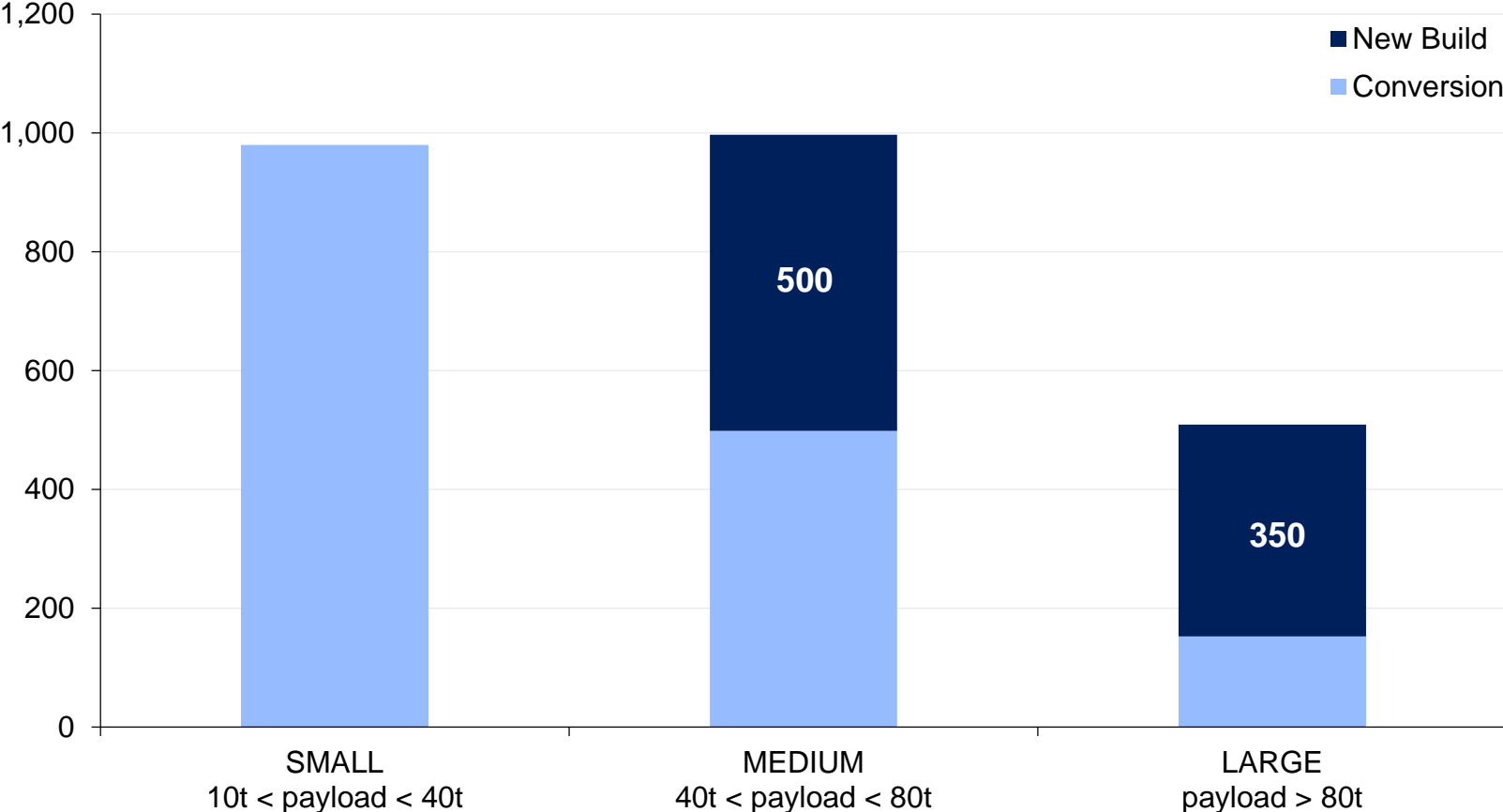


Notes: Passenger aircraft (≥100seats), Freighters (>10t) | Rounded figures to nearest 10  
Source: Airbus GMF 2019



# Demand for some 850 new build freighter aircraft in the next 20 years

World 20-year freighter demand, by aircraft category [2019-2038]



Notes: Jet aircraft (>10ton)  
Source: Airbus 2019

# Global demand for 39,210 new passenger & freighter aircraft

SMALL

**29,720** aircraft

**76%** share of total new del.

MEDIUM

**5,370** aircraft

**14%** share of total new del.

LARGE

**4,120** aircraft

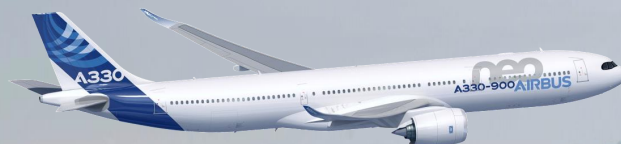
**10%** share of total new del

# Our products & their core market segments

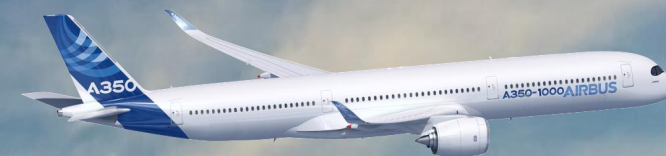
**A320 FAMILY**



**A330neo**



**A350-1000**



**A220**



**A321 XLR**



**A350-900**

SMALL

MEDIUM

LARGE



# Unbeatable fuel efficiency

Aircraft category



## A220

Versatility on short- to medium-haul operations

Step-change economics vs competitors

## A320 FAMILY

Superior single-aisle comfort

# Profitable partnership

Aircraft category



## A321 XLR

All-NEO design: new engines, Airspace cabin

Up to 30% better cost per seat vs previous generation

## A330neo

40 airlines already flying both Families on the same routes

# The all-new design widebody

Aircraft category



## A350-900

Only all-new large widebody

>8,000 nm range

45t lower TOW vs competitor

## A350-1000

Outstanding EIS

# Summary

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**Strong & Resilient passenger traffic growth**  
**Middle-class to increase by 50% by 2038**  
**Air traffic (RPK) forecast to growth 4.3% p.a.**

**39,210** new deliveries by 2038

38,360 passenger aircraft

850 freighters

~36% of deliveries for replacement

~64% for growth

**76%** Small (29,720 units)

**14%** Medium (5,370 units)

**10%** Large (4,120 units)