

DRAFT

# Regional Demand Recovery Outlook What the data is telling us

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*ICAO Webinar on Air Transport Data and Analytics*

Henk Ombelet– Head of Advisory Operations

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# Agenda

- 🚀 **Cirium Introduction**
- 🚀 **The state of the market**
- 🚀 **Recovery and challenges**

# Powerful data, advanced analytics and open-system – it's in our DNA



A global provider of information-based analytics and decision tools for customers.

\$10bn revenues

\$40bn+ market capitalization.

180+ countries served

75%+ Fortune 500 as clients

30,000+ employees in 40 countries

Group

## Risk & data services

High growth analytics supported by Big Data

\$2.8bn revenues, 8,700 employees

5 petabyte HPC open-source big data platform

**Leading world positions:** agriculture, aviation, banking, finance, insurance, law enforcement, national security & petrochemicals

Legal

Scientific, technical & medical

Exhibitions

Divisions



Aviation & Travel Sector



CIRIUM



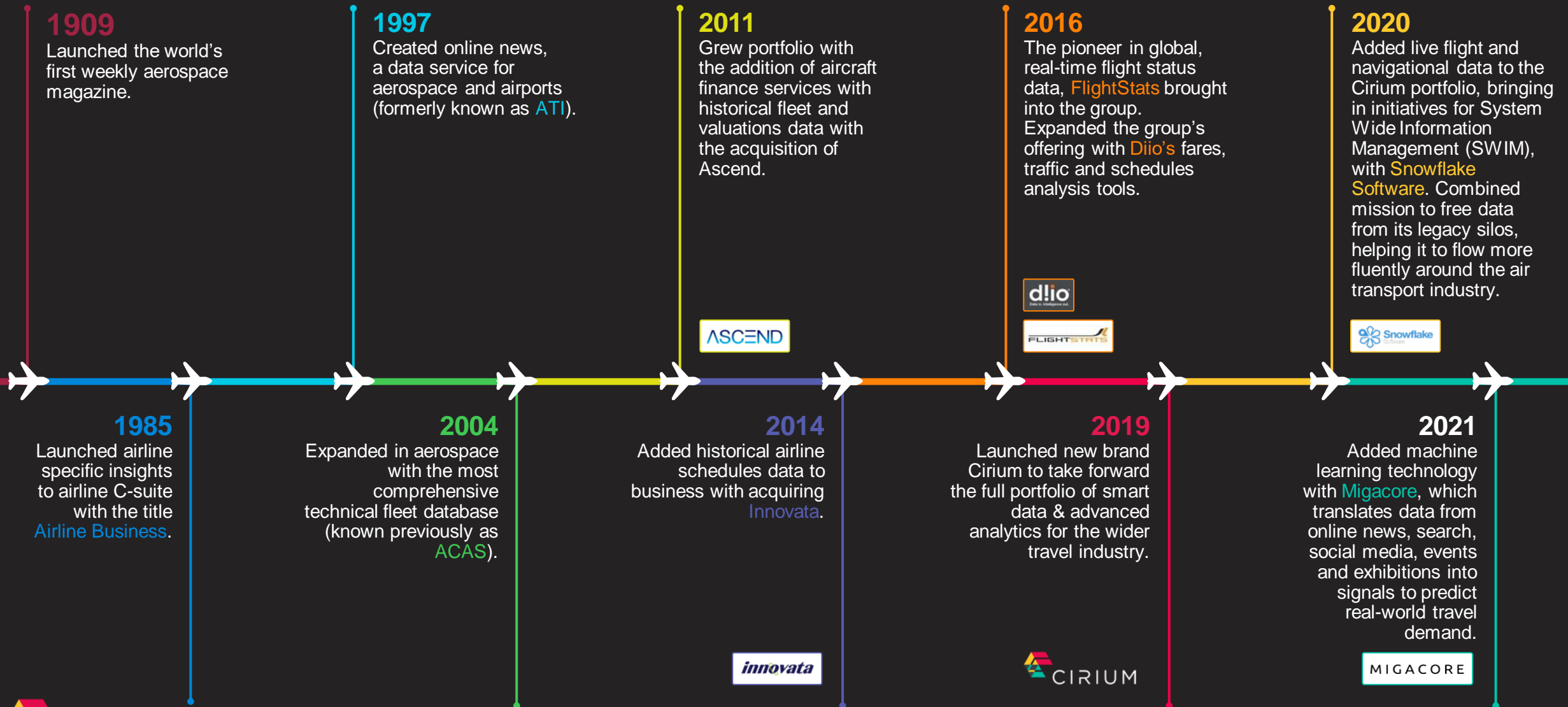
ELSEVIER



Brands



# We created a new data analytics powerhouse under a new brand



Our mission...



## Accelerating Digital Transformation



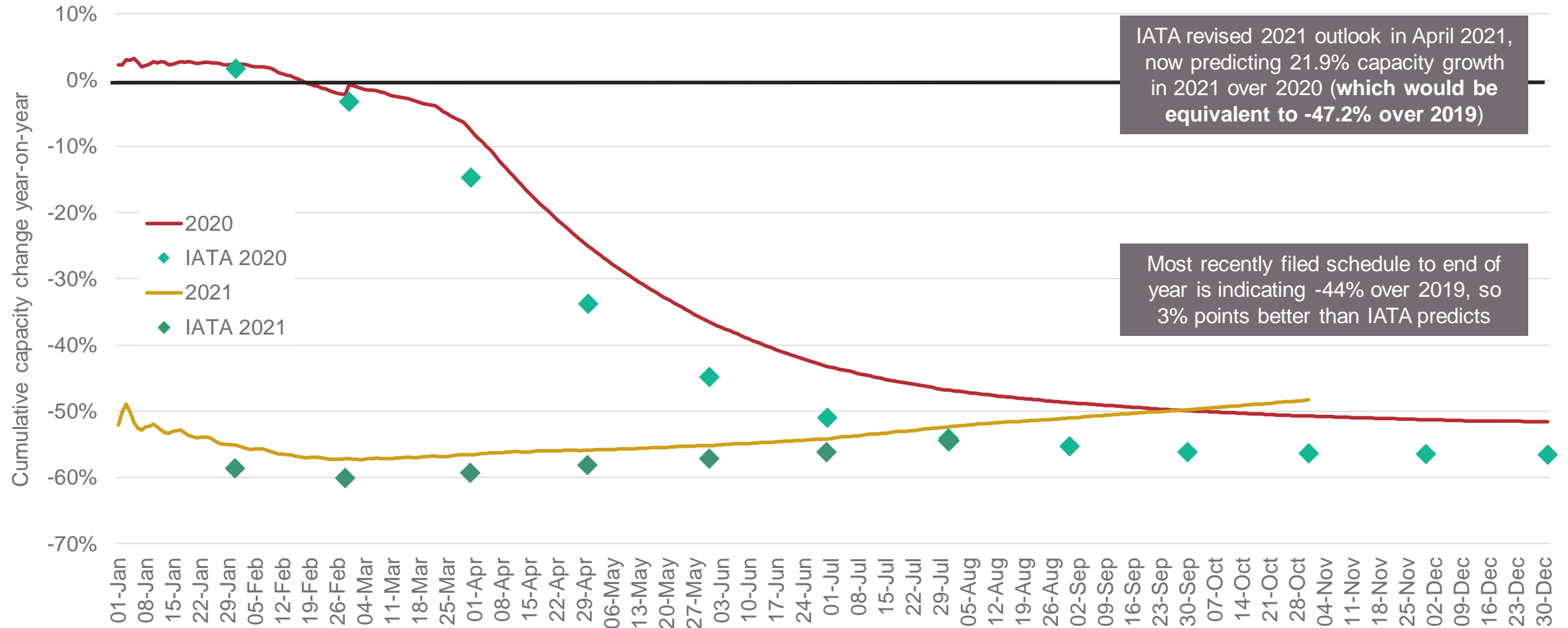
*We allow data to **flow fluidly**, making it available how, where and when it is most **needed**, regardless of the systems and services where it was **created** or will be **consumed***



# The state of the market



2020 global capacity down 52% cumulatively over 2019 (IATA data indicates actual position was 5% worse), 2021 was 57% down over 2019 by end March, recovering to -51% by end August and projected -48% by end October



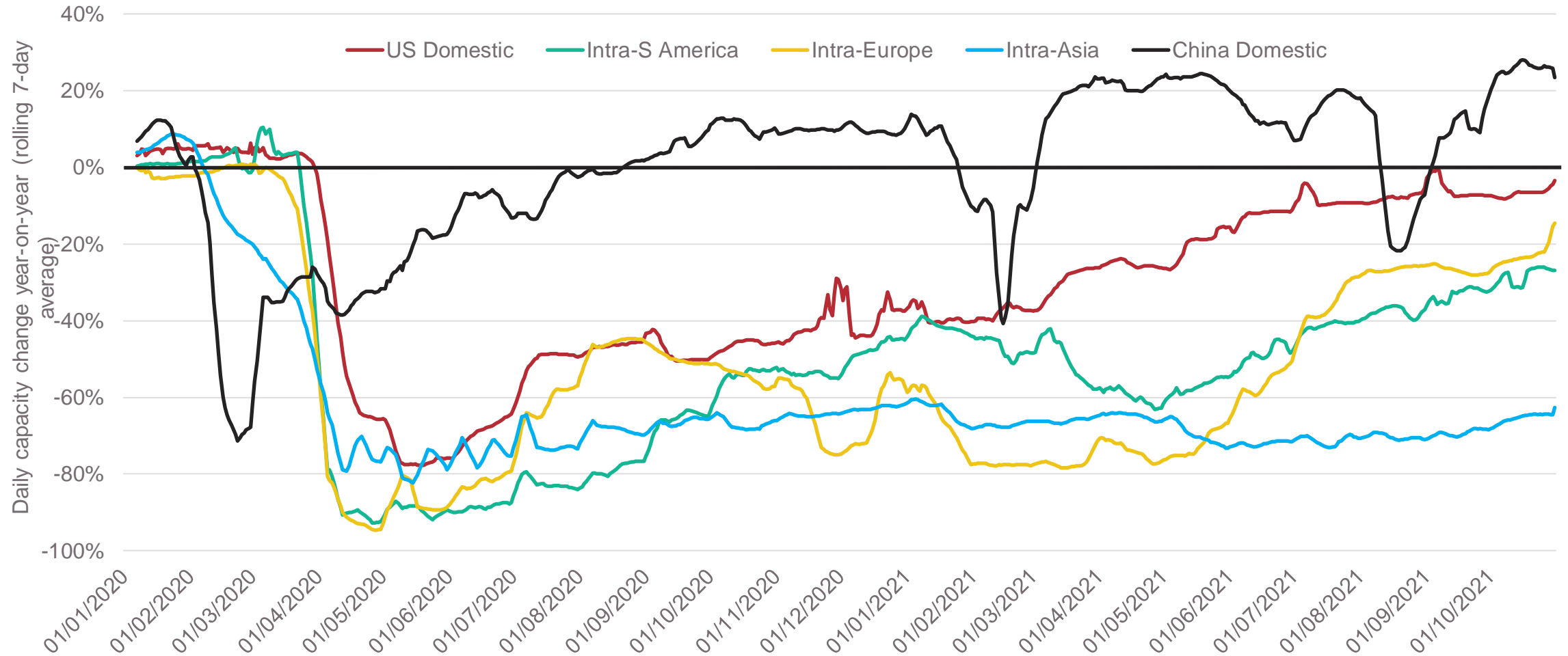
IATA revised 2021 outlook in April 2021, now predicting 21.9% capacity growth in 2021 over 2020 (which would be equivalent to -47.2% over 2019)

Most recently filed schedule to end of year is indicating -44% over 2019, so 3% points better than IATA predicts

Source: Cirium Schedules, data filed 19 September 2021, 2021 change is over 2019 equivalent, IATA 2021 change is estimated from IATA monthly traffic reports

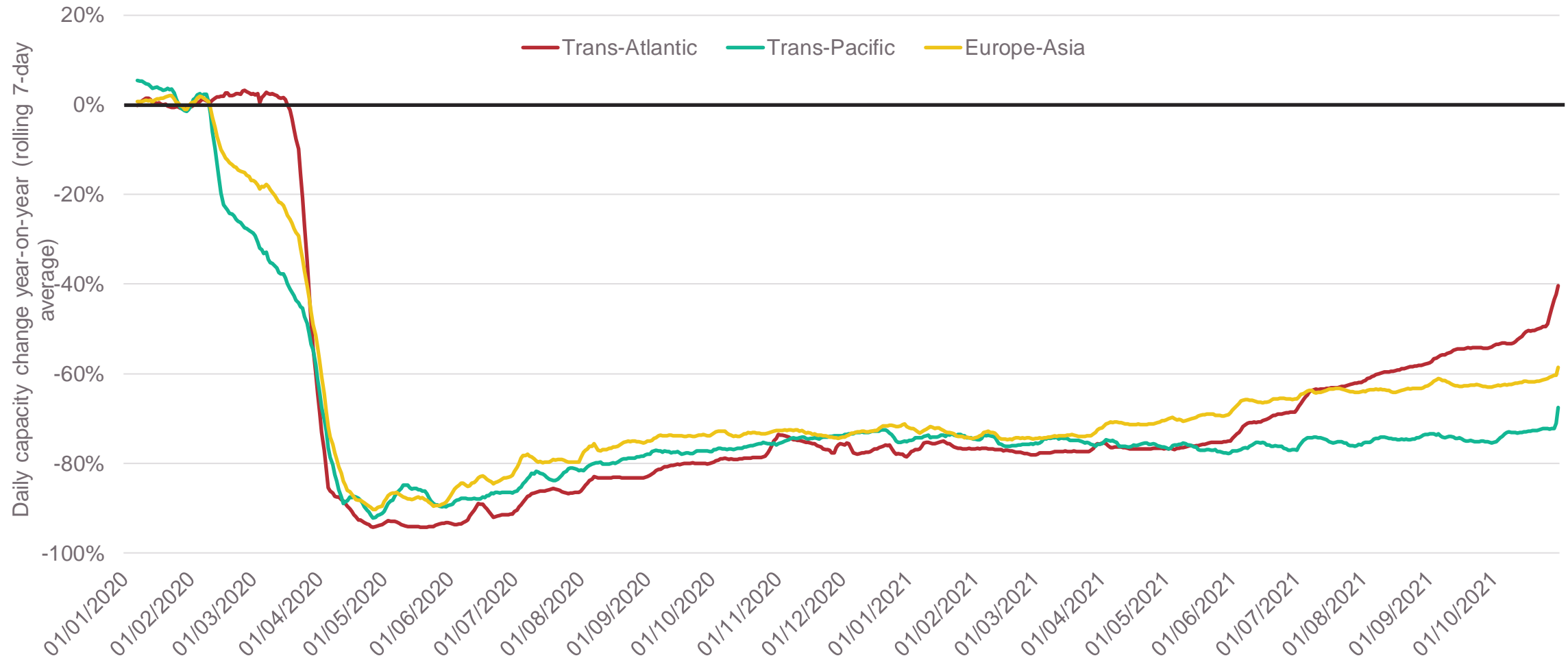


China domestic showing recovery following significant decline in August, US domestic market also projecting improvement to only 3% down over 2019 by end October, Europe continues strong summer recovery into October, Intra-Asia remains >65% down through September



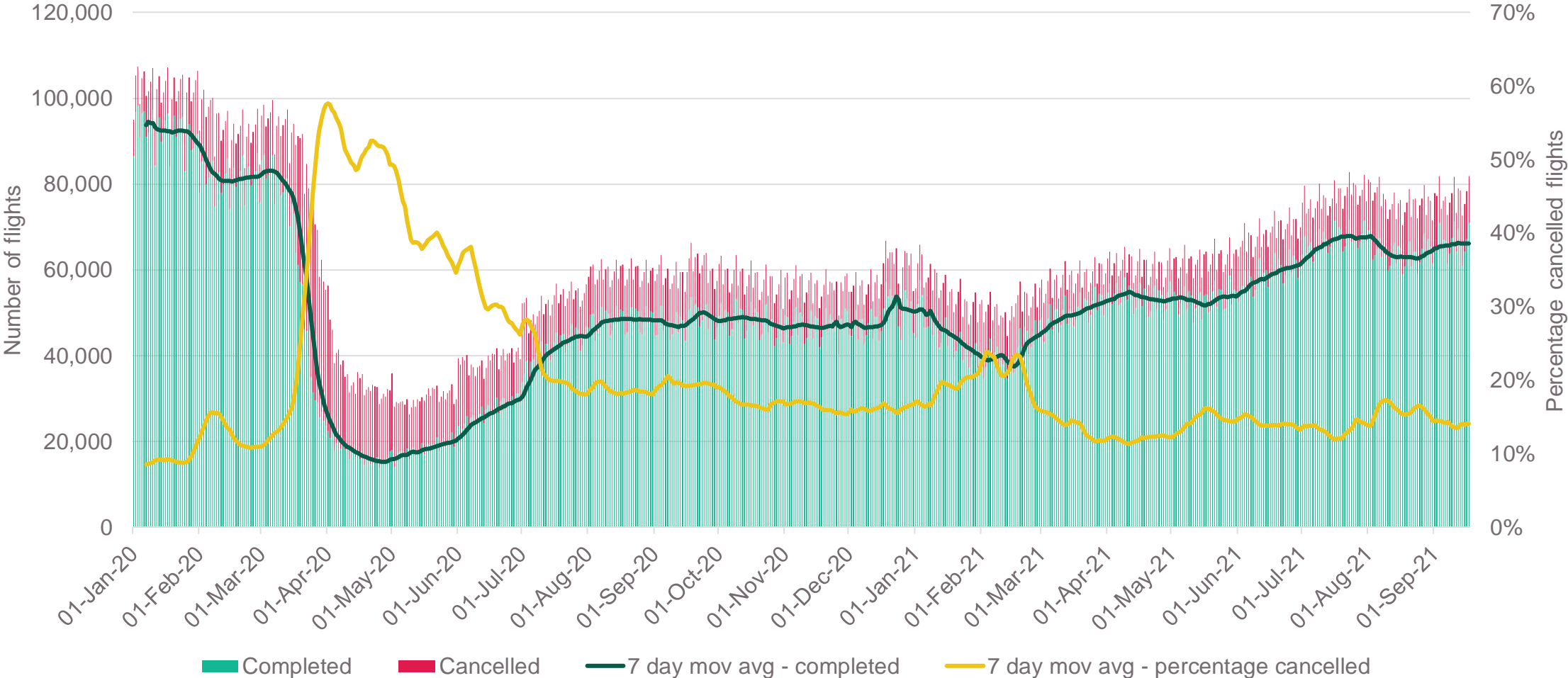
Source: Cirium Schedules, data filed 19 September 2021, 2021 change is over 2019 equivalent

Long-haul all remained 60%-70% down over 2019 through end August 2021, Trans-Atlantic showing improvement through September and October, also slow improvement on Europe-Asia but all still down 50-70% by end September



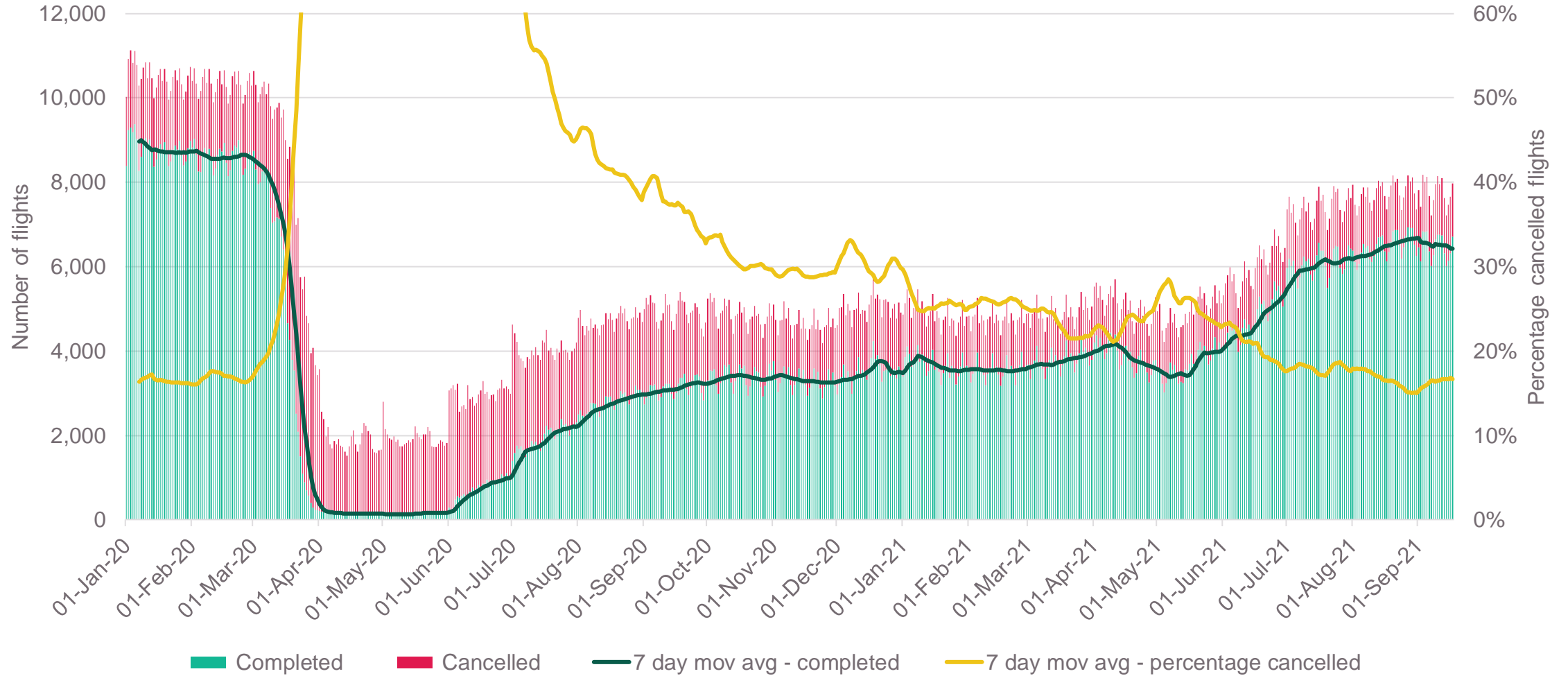
Source: Cirium Schedules, data filed 19 September 2021, 2021 change is over 2019 equivalent

Global completed flights is back where we were a month ago, with no real change at the moment, nor any indication of improvement or otherwise.



Source: Cirium FlightStats Includes all global scheduled passenger flights

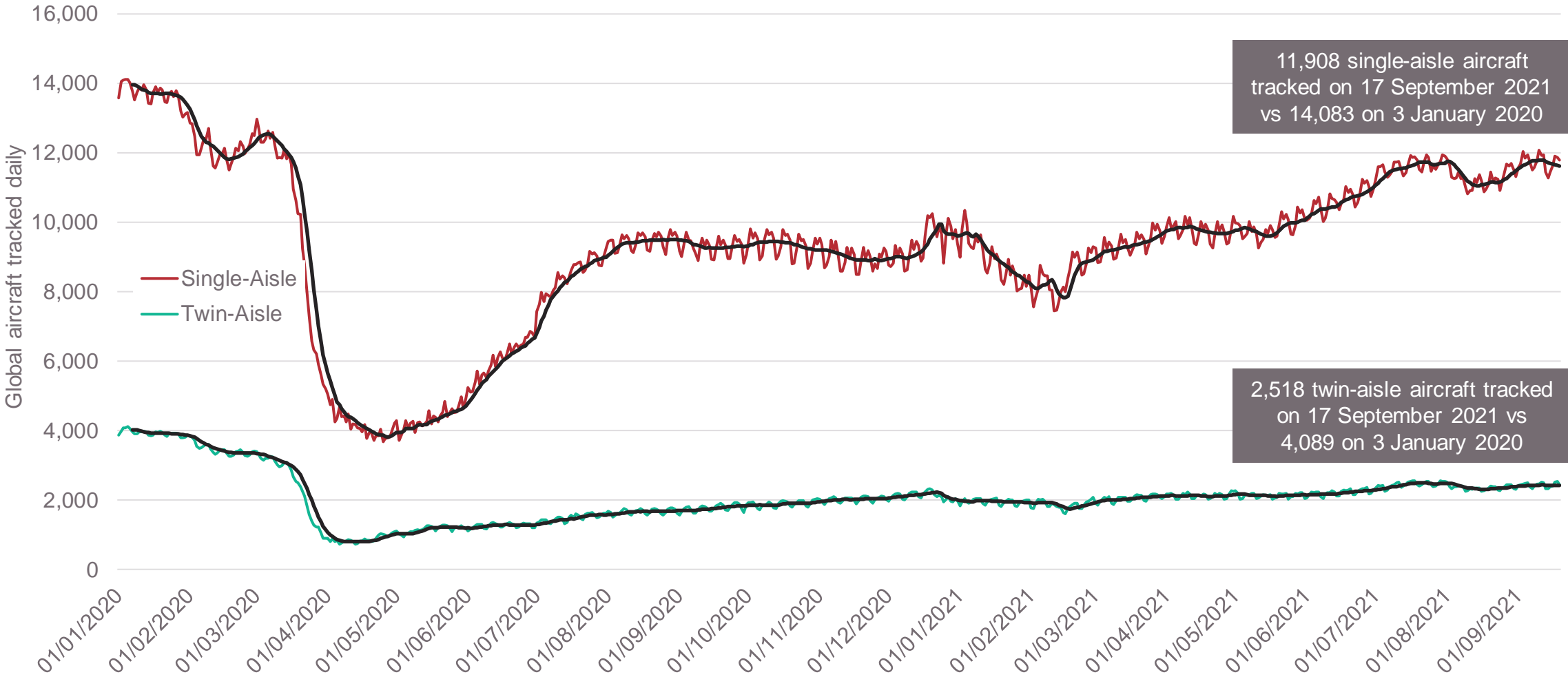
# Middle East and Africa



Source: Cirium FlightStats. Includes all scheduled passenger flights to, from and within the Middle East & Africa

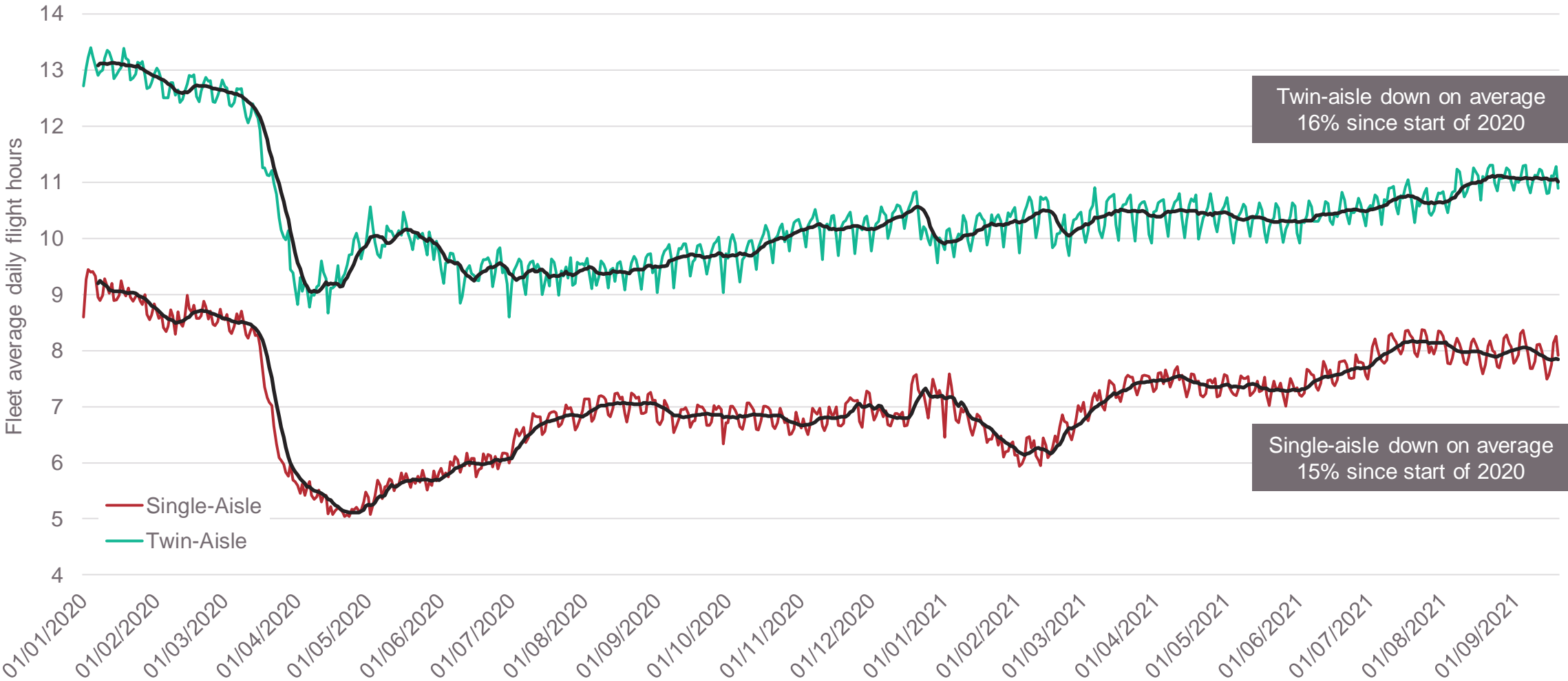
*Note: the "cancelled" percentages in Asia-Pacific are higher than in the other three regions. This is primarily due to airlines in this region not updating their schedules as often as in the other regions, resulting in more last-minute cancellations or flights simply not flown in spite of being scheduled. The tracking coverage is also a bit lower in some parts of this region.*

# Fleet tracking starting to recover back to growth trend as China fleet increases again, marginal growth continues in Asia-Pacific (excluding China) this week, all other regions stable or showing marginal declines over last week



Source: Cirium utilisation data, commercial passenger jets, utilisation data for aircraft tracked on a daily basis only

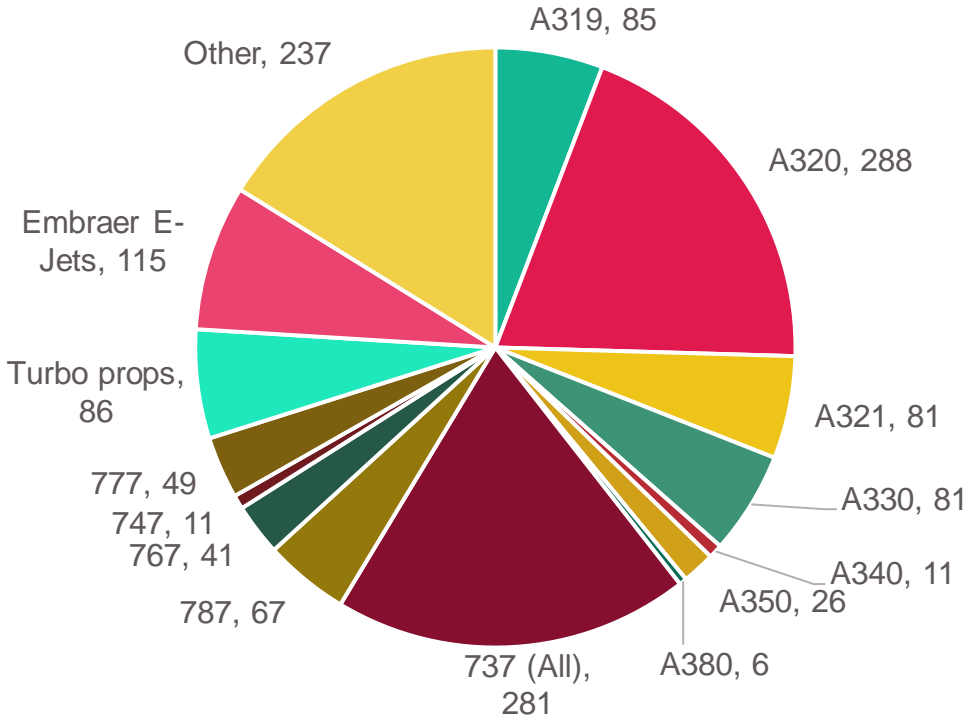
# Average daily utilisation largely stable since early July



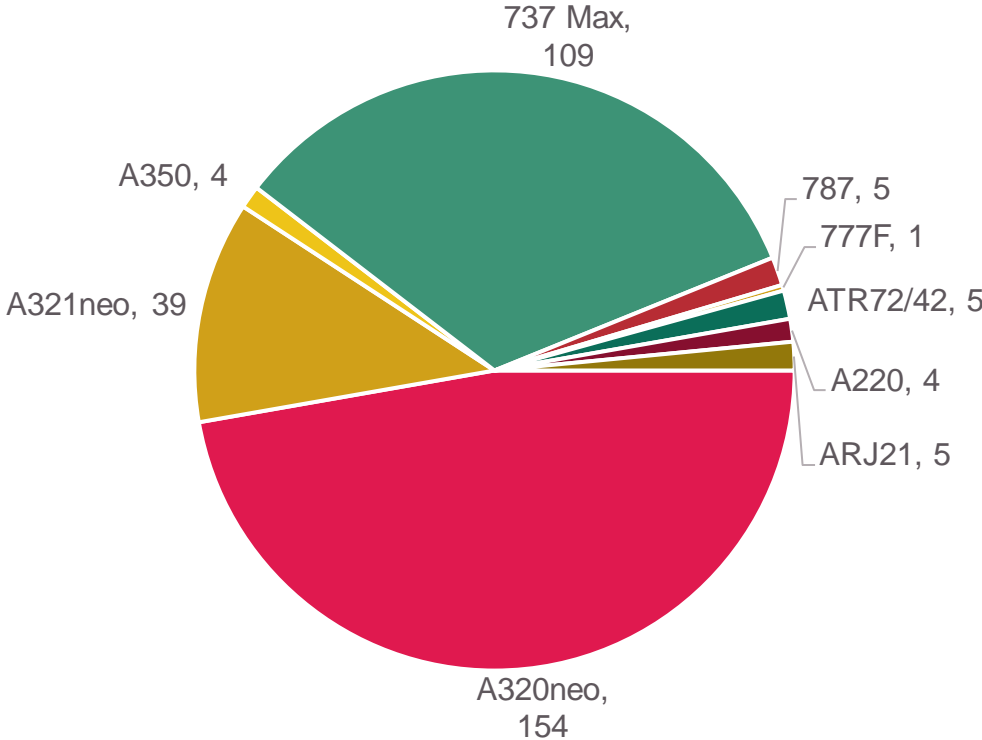
Source: Cirium utilisation data, commercial passenger jets, utilisation data for aircraft tracked on a daily basis only

# 68 Airline restructurings and bankruptcies

Aircraft in service/storage



Aircraft on order



Source: Cirium Fleets Analyzer

Note: this data only includes airlines quoted on the previous slide

# Recovery and challenges



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# Three key factors driving demand for air travel and timing, scale of recovery



The Economy  
Recession hits  
spending  
power

Customer  
choice  
Business  
Leisure

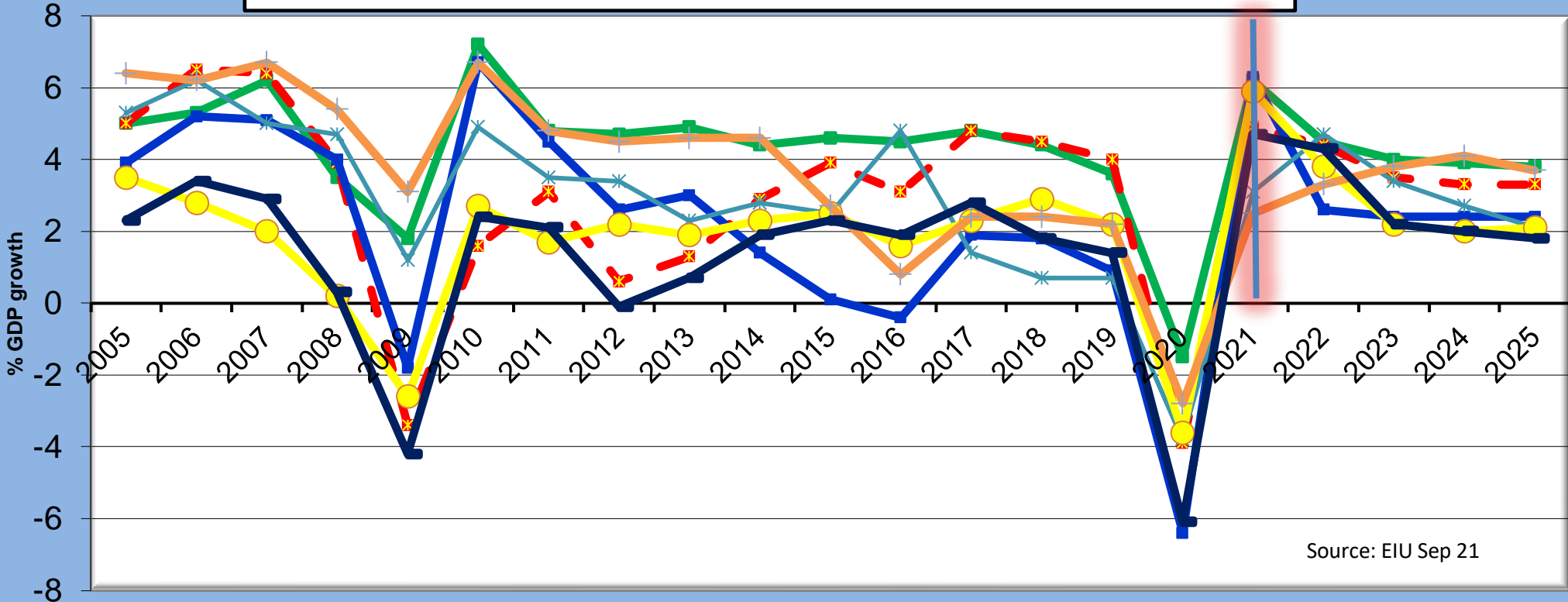
Permission to  
fly  
Airlines  
Passengers



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For GDP, a return to 'Normal' growth levels suggested, with Asia leading the way

## Regional GDP Growth Expectations to 2025



Source: EIU Sep 21

- Asia and Australasia - [19]
- Latin America - [20]
- North America - [2]
- Western Europe - [21]
- Eastern Europe - [13]
- Middle-East and North Africa - [19]
- Sub-Saharan Africa - [17]

# Signposts to scenarios

Issue	Signposts – timing/nature varies by scenario
Covid-19 scenario	Rate of new cases, Pace of vaccine roll-outs.
Economic forecast	GDP forecast levels, direction of change of forecasts, PMIs
Demand recovery	IATA traffic releases, Forward schedule, airline ASK announcements, flights flown, level of cancellations, Travel Agent survey
Travel restrictions	Timing of domestic, intra-regional, intercontinental easing. Timing of international travel within EU of particular note.
Airline environment	Airline bankruptcies, lease returns, market values and lease rates
Fleet surplus	Fleet in-service, utilisation levels, load factor
OEM production	OEMs maintain production at minimum viable rates, before slow recovery in deliveries from 2022

## 'Opening up' scenarios based on >70% of adult population vaccinated

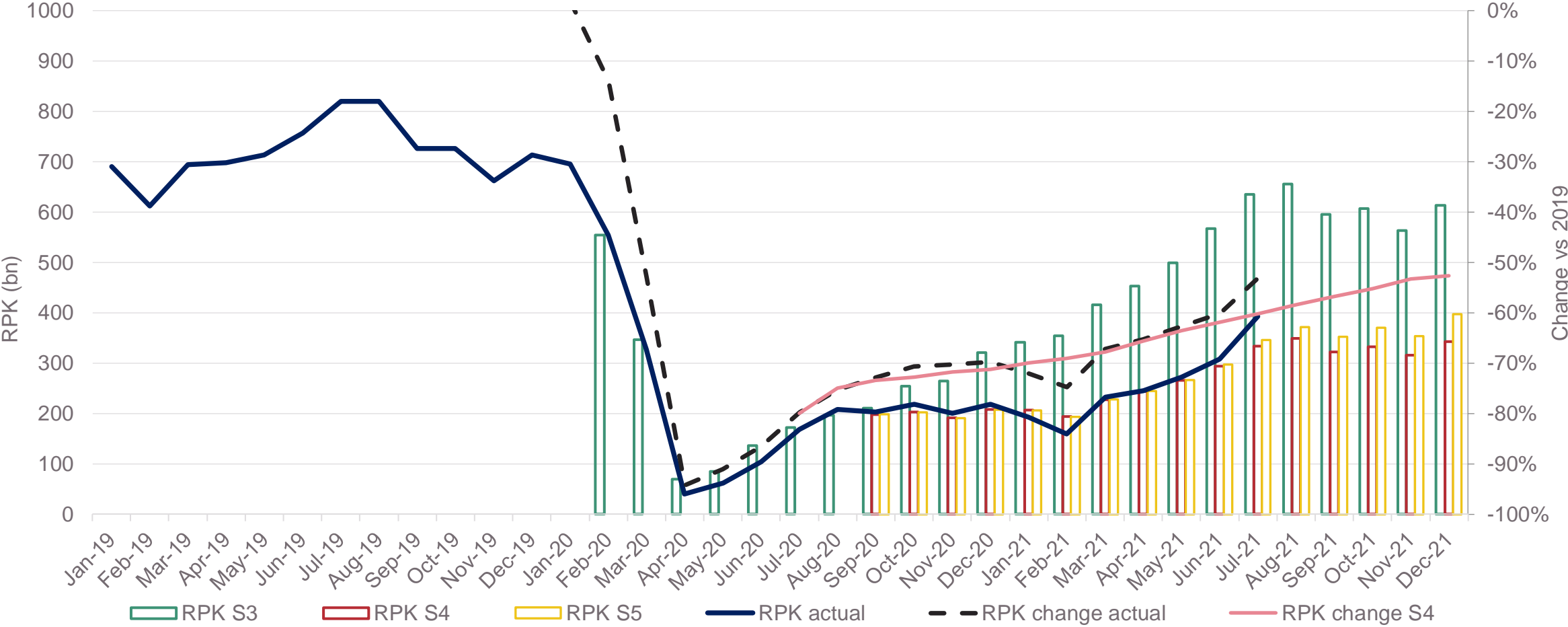
Date by when 70% expected to be fully vaccinated	Countries – ranked by population/ASKs
Now	Most of EU, UK, China, Brazil, Canada, Singapore, Israel, UAE, Chile
Q4 2021	USA, Japan, Mexico, Turkey, South Korea, Argentina, Morocco, Saudi Arabia, Malaysia, Australia, Ecuador, Cambodia
Q1 2022	Thailand, Colombia, Peru, Taiwan, Kazakhstan, Tunisia
Q2 2022	India, Indonesia, Russia
H2 2022	Pakistan, Philippines, Vietnam, South Africa,
2023 or later	Bangladesh, Ukraine, most of Africa, others

Recovery to 2019 demand levels is not synchronous, but in both scenarios long-haul lags domestic and regional, driving at least two more years of sub-2019 demand

	<b>Scenario 4</b>	<b>Scenario 5</b>
<b>Asia Pacific</b>	May 2024	March 2023
<b>Europe</b>	March 2025	May 2023
<b>North America</b>	December 2024	September 2023
<b>China</b>	April 2023	September 2022
<b>Latin America</b>	October 2024	July 2023
<b>Middle East</b>	January 2025	April 2024
<b>Africa</b>	June 2025	March 2024
<b>Russia/CIS</b>	July 2024	June 2023
<b>World total</b>	<b>August 2024</b>	<b>May 2023</b>

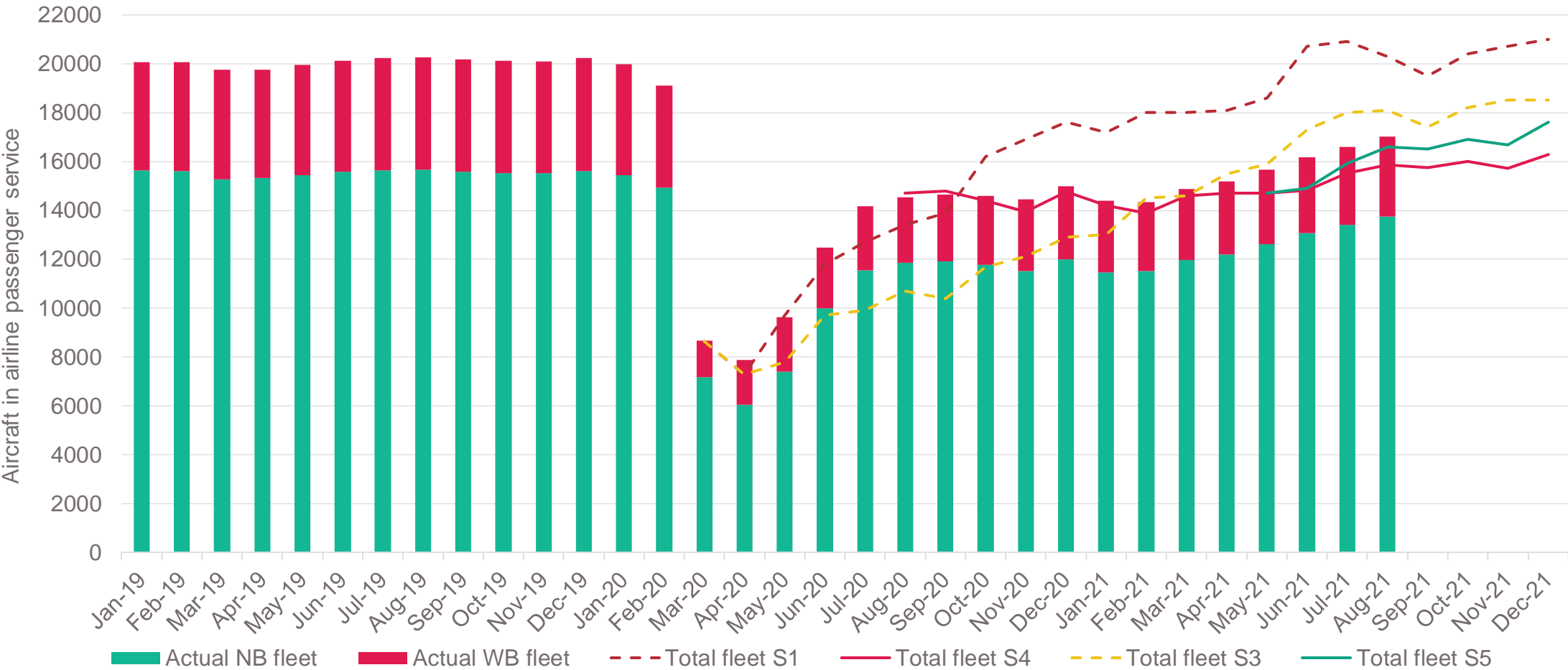
Source: Ascend by Cirium Scenario Analysis, total market

# July 2021 RPKs down 53.1% vs 2019, a 7% point improvement on June, August expected to be down 52-56%



Source: Cirium schedules, Ascend by Cirium analysis, IATA (Load Factor)

# Passenger fleet in service is increasing ahead of more optimistic recovery scenario (S5)



Source: Cirium Fleets Analyzer, Ascend by Cirium analysis

# Aviation Outlook

# Conclusions

- ✚ GDP has been the key driver of long term airline traffic growth and remains so, but environmental concerns moving up agenda
- ✚ Covid-19 dramatically impacted GDP and traffic forecasts. In addition, consumer health concerns and government restrictions have reinforced the impact on aviation
- ✚ The reduction in passenger traffic seen in 2020, around 12 times the level of reduction in GDP, is completely unprecedented
- ✚ While GDP growth has turned positive in 2021, traffic recovery remains stilted
- ✚ Domestic and regional routes have recovered fastest
- ✚ Recovery of global traffic could be expected by 2023/4 but likely many different impacts will be seen on route networks
- ✚ The continued viability of many elements of the aviation and travel and tourism supply chain is still uncertain.





Henk Ombelet  
Head of Advisory Operations

+447795227190  
henk.ombelet@cirium.com

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7 ISTAT CERTIFIED APPRAISERS

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**Europe, Middle East and Africa**  
Headquarters and London office: +44 20 7911 1400  
Heathrow office: +44 (0)20 8564 6700

**The Americas**  
New York office: +1 646 746 6851  
Washington office: +1 703 706 9470

**Asia**  
Hong Kong office: +852 2813 6366  
Tokyo office: +81 3 5561 5630  
Singapore Office: +65 6780 4315

## For more information

Visit our website:  
[cirium.com](http://cirium.com)

Or get in contact:  
[info@cirium.com](mailto:info@cirium.com)