





Presentation of key trends in Asia/Pacific

Bangkok, December 2023





Chicago Convention

Preamble

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THEREFORE, the undersigned governments having agreed on certain principles and arrangements in order that international civil aviation may be developed in a safe and orderly manner and that international air transport services may be established on the basis of equality of opportunity and operated soundly and economically;





STATE OF AIR TRANSPORT

OVERVIEW OF GLOBAL AND ASIA / PACIFIC REGION

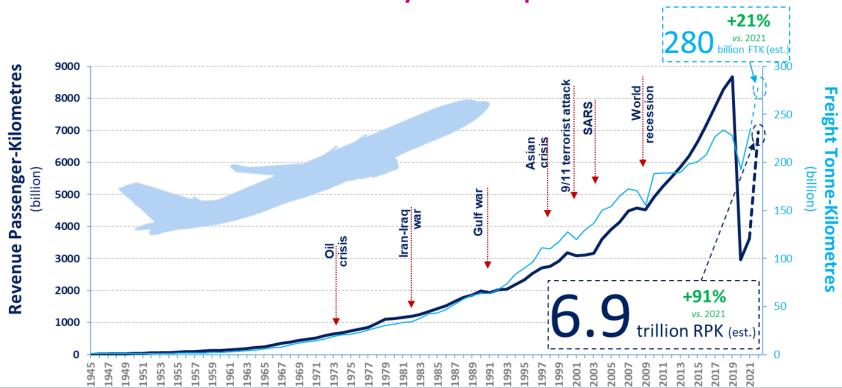


The Size of the Industry in 2021

- 2.3 billion passengers
- 24 million aircraft departures
- 57 million freight tonnes carried
- Over 1 400 scheduled airlines
- More than 15 000 active aircraft
- **→** More than 3 900 airports
- → 173 air navigation centres
 - 360,000 pilots* and 86,000 air traffic controllers



Global traffic: A recovery from the pandemic shock

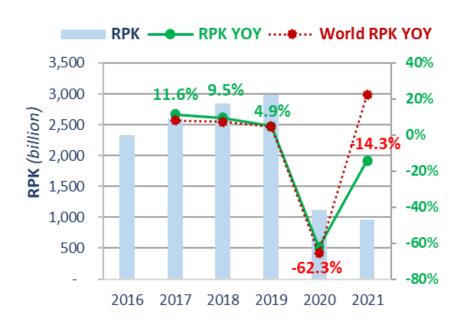




Passenger Traffic in 2021 – Asia and Pacific

Revenue Passenger Kilometres (RPKs)

- Passenger traffic in RPKs showed merely 32.3% in 2021 compared to the 2019 level.
- Passenger traffic was severely impacted than the world average.

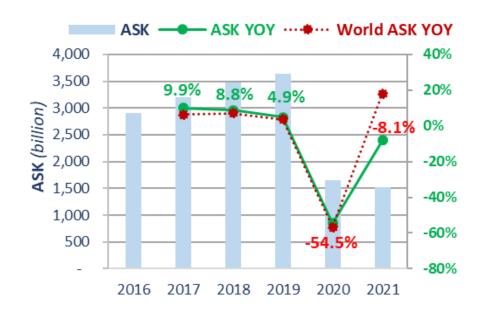




Passenger Traffic in 2021 – Asia and Pacific

Available Seat Kilometres (ASKs)

- Seat capacity in ASKs was merely 41.8% in 2021 compared to the 2019 level by the COVID-19 pandemic.
- Seat capacity was severely impacted than the world average.



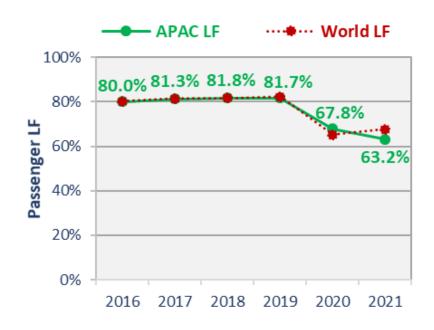
International and domestic scheduled services



Passenger Traffic in 2021 – Asia and Pacific

Load Factor

- Passenger load factor declined to 63.2% in 2021 due to the pandemic (-4.6 percentage points).
- Passenger load factor underperformed the world average.



International and domestic scheduled services





Top 15 States and Airlines in 2021 – Asia and Pacific

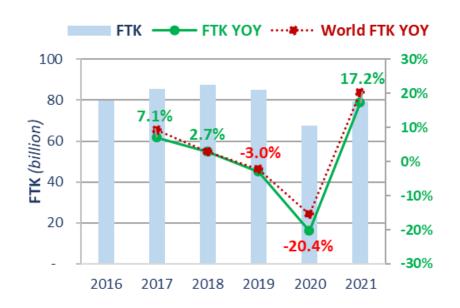


Top 15 States Top 15 Airlines



Freight Traffic in 2021 – Asia and Pacific

- Cargo traffic measures in Freight Tonnes-Kilometres (FTKs) recovered by 17.2% in 2021.
- FTK YOY rate in 2021 is slightly lower than the world average.
- Cargo traffic in Asia/Pacific is also resilient against the pandemic compared to passenger traffic.

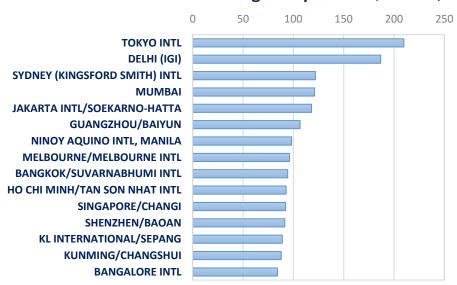


International and domestic scheduled services

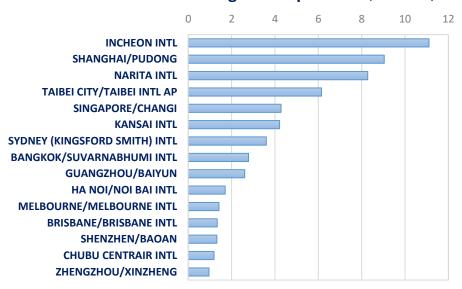


Top 15 Airports in 2022 – Asia and Pacific

Passenger Departures (thousand)



Freighter Departures (thousand)

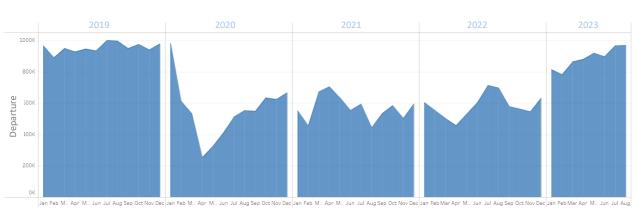


Top 15 airports in term of Passengers flight departures

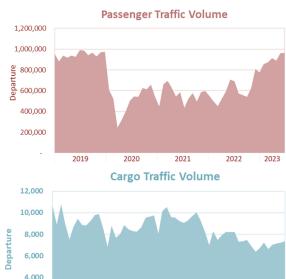
Top 15 airports in term of Freighter flight departures



Asia/Pacific Evolution of traffic



Total Departure Volume



- Total departures from Asia/Pacific region have shown constant recovery since the pandemic shock.
- Scheduled passenger departure volume in 2023 Jan-Sep recovered by 93% compared with 2019 Jan-Sep.
- Scheduled cargo departure volume, on the other hand, shows a slight decreasing phase after the pandemic.





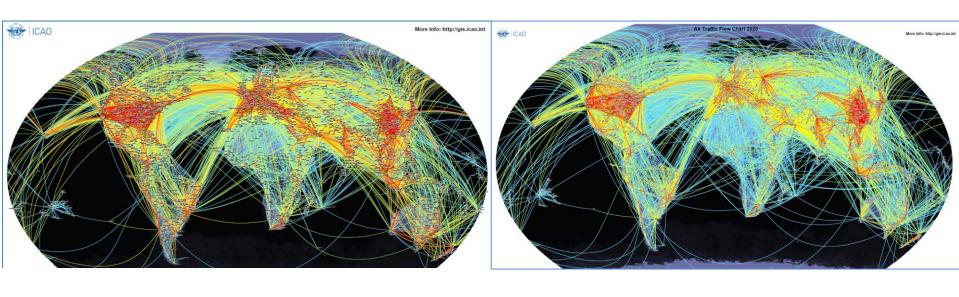
GLOBAL COMPARISON







COVID-19 pandemic impacted air connectivity

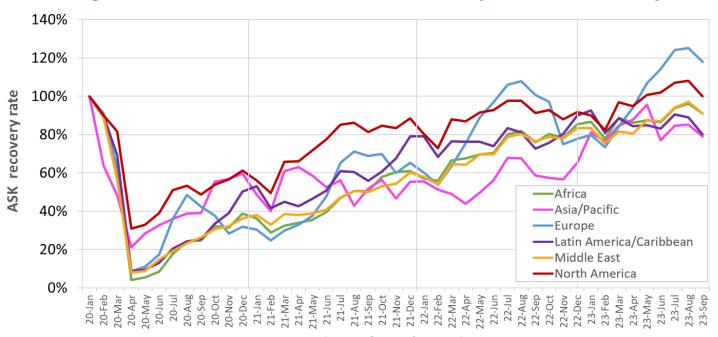


2020 2019





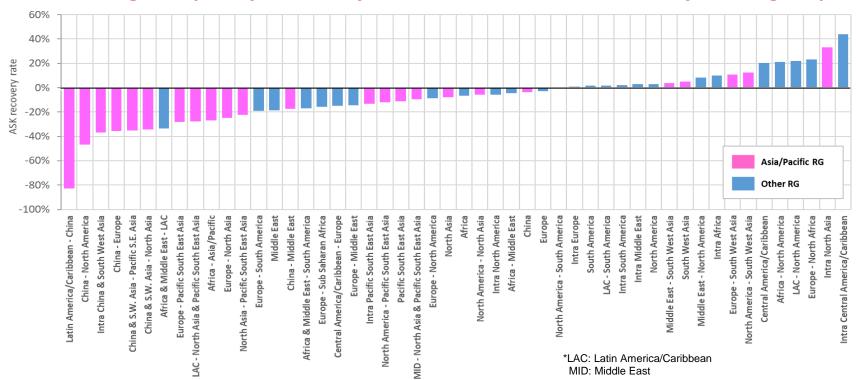
Regional difference in resilience and speed of recovery



Comparison of ASK by region (2020 Jan - before the pandemic – as 100%)



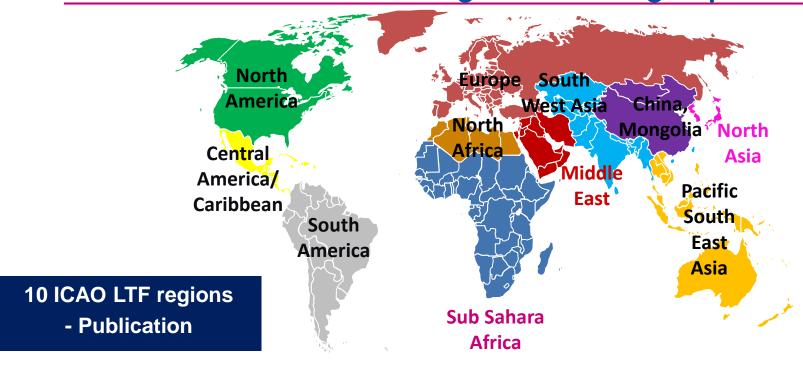
Passenger capacity Recovery rate 2019 Oct vs. 2023 Oct by route group







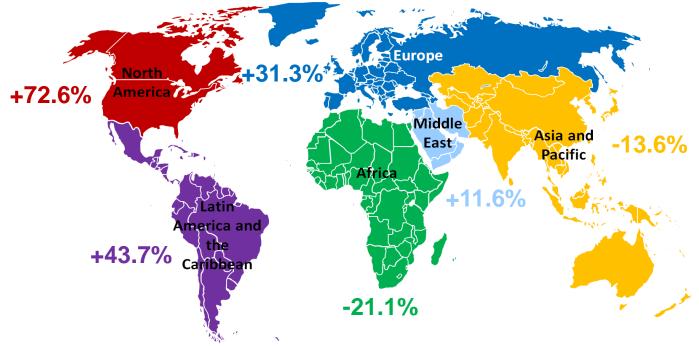
Definition of the region for route group





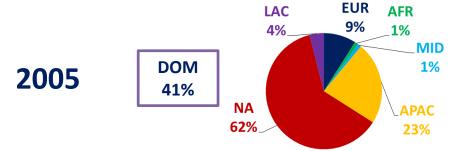


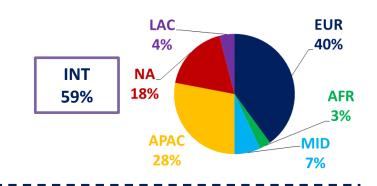
Global +22.4%



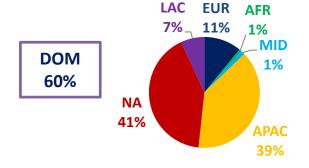


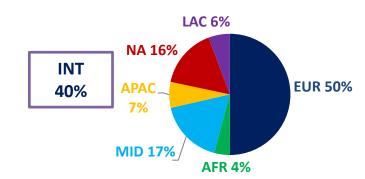
Regional Distribution of Passenger Traffic in terms of RPK





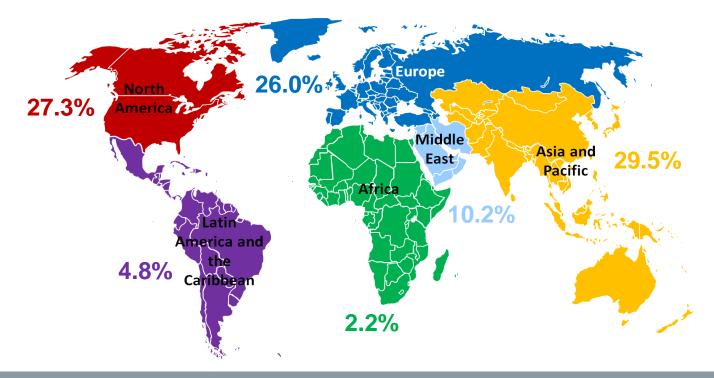
2021





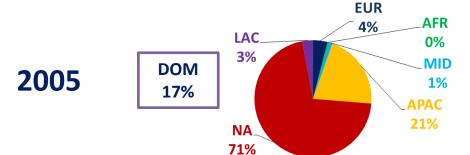


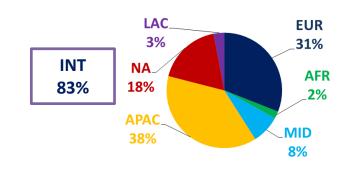
Share of Total Revenue Tonne-Kilometres by Region in 2021



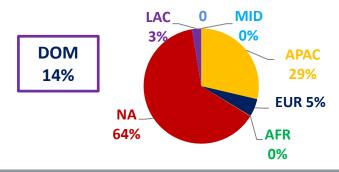


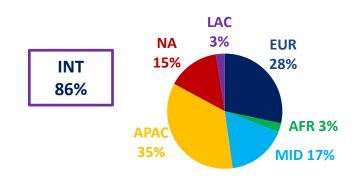
Regional Distribution of Cargo Traffic in terms of FTK





2021







Traffic Ranking in 2021 and 2020

International Total Revenue Tonne-Kilometres (RTK)

Rank	State of AOC	RTK 2021 (million)	RTK share (%)	Cumulative (%)	
1	United States	147 768	25.8%	25.8%	
2	China ¹	88 841	15.5%	41.3%	
3	United Arab Emirates	25 561	4.5%	45.8%	
4	Russian Federation	24 507	4.3%	50.0%	
5	Qatar	22 569	3.9%	54.0%	
6	Turkiye	21 939	3.8%	57.8%	
7	Germany	18 567	3.2%	61.0%	
8	Republic of Korea	17 697	3.1%	64.1%	
9	Japan	16 401	2.9%	67.0%	
10	France	12 925	2.3%	69.2%	
11	United Kingdom	9 738	1.7%	70.9%	
12	Ireland	9 589	1.7%	72.6%	
13	Netherlands	<i>9 575</i>	1.7%	74.3%	
14	Mexico	8 811	1.5%	75.8%	
15	Luxembourg	<i>8 760</i>	1.5%	77.4%	
16	India	<i>8 758</i>	1.5%	78.9%	
17	Canada	8 432	1.5%	80.4%	
18	Spain	7 574	1.3%	81.7%	
19	Brazil	7 417	1.3%	83.0%	
20	Ethiopia	6 268	1.1%	84.1%	

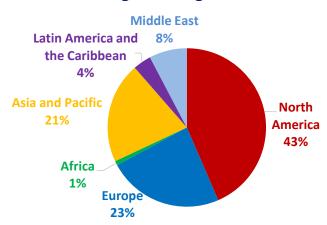
Torme knowledges (KTK)							
Rank	State of AOC	RTK 2020 (million)	RTK share (%)	Cumulative (%)			
1	United States	97 187	20.5%	20.5%			
2	China ¹	86 878	18.3%	38.8%			
3	United Arab Emirates	23 054	4.9%	43.6%			
4	Qatar	18 876	4.0%	47.6%			
5	Republic of Korea	16 602	3.5%	51.1%			
6	Russian Federation	16 324	3.4%	54.5%			
7	Japan	14 765	3.1%	57.6%			
8	Germany	14 594	3.1%	60.7%			
9	Turkiye	14 421	3.0%	63.7%			
10	United Kingdom	10 818	2.3%	66.0%			
11	France	9 523	2.0%	68.0%			
12	Canada	8 669	1.8%	69.8%			
13	India	8 545	1.8%	71.6%			
14	Netherlands	8 364	1.8%	73.4%			
15	Ireland	7 675	1.6%	75.0%			
16	Luxembourg	7 446	1.6%	76.6%			
17	Brazil	6 123	1.3%	77.9%			
18	Singapore	6 038	1.3%	79.1%			
19	Mexico	5 826	1.2%	80.4%			
20	Australia	5 342	1.1%	81.5%			



Airlines Financial Results 2021



Distribution of airlines net profit by region of registration



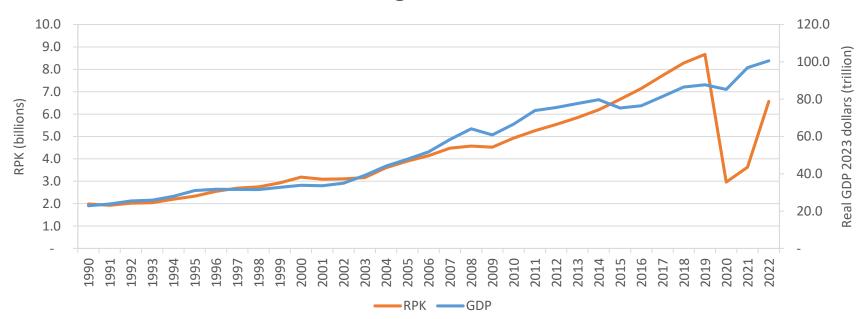
Mixed results at the regional level, with North American airlines concentrating 45% of the profits of the airline industry





Air Traffic and GDP Over Time

Total Revenue Passenger Kilometres and Real GDP

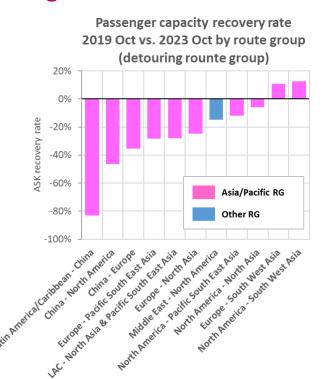






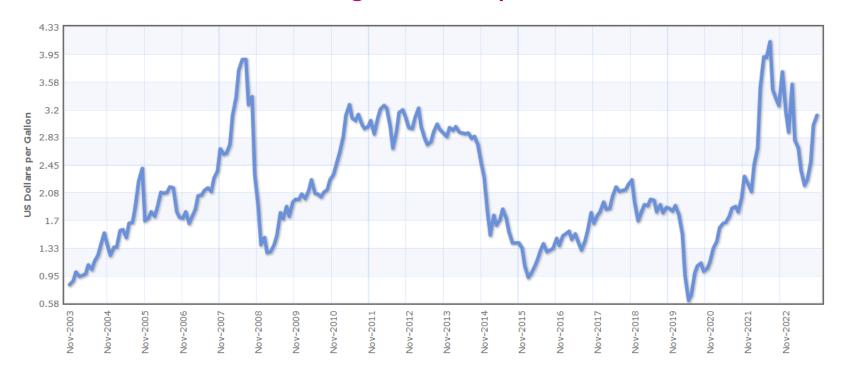
Impact of Russian airspace detouring routes







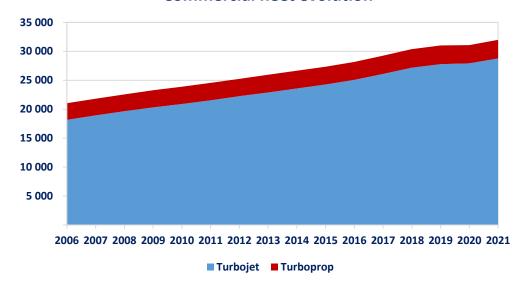
Resurge of Jet fuel price





Airline Fleet

Commercial fleet evolution



In 2021: 28,800 turbojet aircraft 3,200 turboprop aircraft

For the 2 largest aircraft manufacturers (Airbus and Boeing) in 2022:

- 1141 new aircraft delivered
- Net orders for 1594 aircraft

Book to bill ratio* sharply increased from **0.5:1** in 2019 to **1.4:1** in 2021, reflecting the recoveries from the pandemic and B737 MAX concerns.

* Book to bill ratio: orders / deliveries



Working with Data Partners

- Member States
 - Australia, Brazil, China, Ethiopia, France (ENAC), India (CAA), Poland, Portugal, United Kingdom (CAA), United States (FAA, US DOT) etc.
- United Nations Statistical Commission (UNSC)
 - Aviation Satellite Account to measure the economic benefits of air transport, Global indicator for SDG Target 9.1
- World Health Organization (WHO)
 - Provision of traffic flows and intermediate stops of passengers originating from COVID-19 affected regions
- Universal Postal Union (UPU)
 - Sharing with ICAO Big Data of e-commerce and mail transport, as well as joint research on e-commerce
- United Nations Conference on Trade and Development (UNCTAD)
 - Sharing with ICAO on global trade and other modal transportation, as well as global connectivity

- World Tourism Organization (UNWTO)
 - Sharing with ICAO on tourism statistics
- World Bank
 - Exchange of economic and aviation indicators
- International Transport Forum (ITF at OECD)
 - Traffic forecasts, competition analysis
- ICM, University of Warsaw
 - Competition analysis (direct vs indirect flights) by using MIDT, Air Transport Optimizer Tool by using ADS-B
- Airports Council International (ACI)
 - Joint collection of airport statistics, airport charge
- AACO (Arab Air Carriers Organization)
- AFRAA (African Airlines Association)
- ALTA (Latin American and Caribbean Air Transport Association)
 - Exchange of regional traffic statistics



CAO ECONOMIC DEVELOPMENT NO COUNTRY LEFT BEHIND



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