



Introduction

During the COVID-19 pandemic, the aviation industry was severely impacted by travel restrictions and border closures. Since late 2021, post-pandemic recovery has been on track, with worldwide passenger volume forecasted to fully recover by 2024. Enhancing airport connectivity is essential for both the aviation sector and the countries it serves.

This study introduces the ACI Asia-Pacific & Middle East Air Connectivity Index, designed to measure an airport's effectiveness in enabling passengers to access the global air transport network through high-quality connections. For the first time, this Index employs a comprehensive and consumer-centric approach to evaluate air connectivity. In addition to providing current insights into airport industry connectivity in Asia-Pacific and the Middle East, the study highlights the critical challenges facing the sector's modernisation in the future.

Economic Impact of the Aviation Sector



Direct

Indirect



Induced

Catalytic

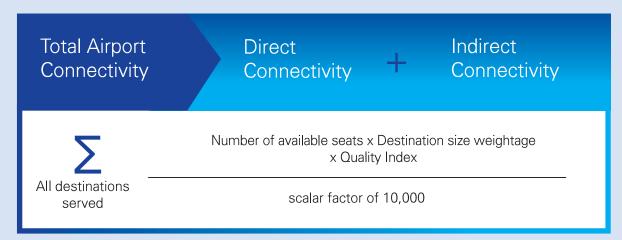
ACI Asia-Pacific and Middle East Airport Connectivity Index and Top 10 airports in Asia-Pacific & Middle East

The ACI Asia-Pacific and Middle East Air Connectivity Index was developed to analyse network coverage and performance of airports from a passenger-centric perspective. The index represents a rigorous measure to evaluate air connectivity which includes comprehensive quality parameters that are **not covered by existing connectivity indices**.

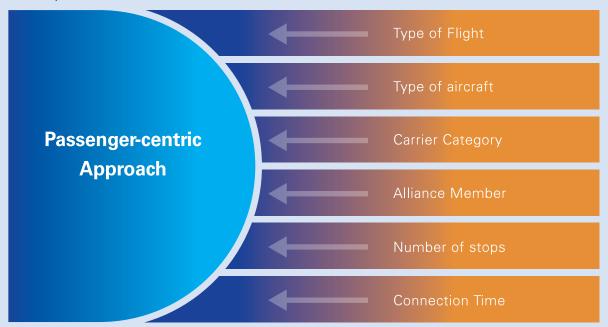


Methodology of the ACI Asia-Pacific & Middle East Air Connectivity Index

Formula for the Connectivity Index



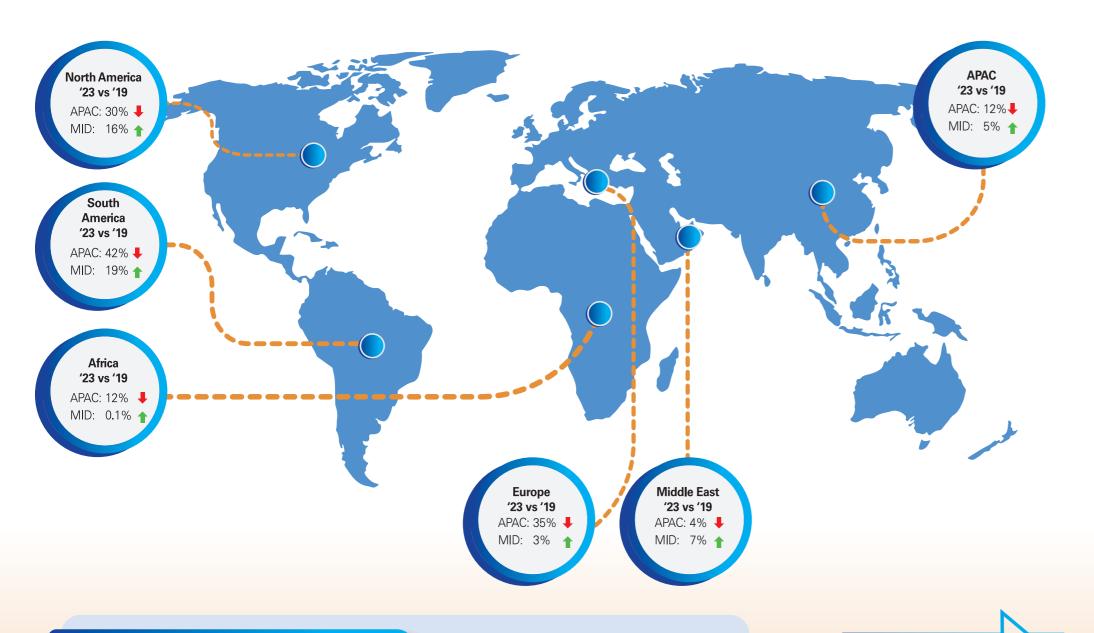
Quality Index Parameters for Direct & Indirect Connections



All direct and indirect connections available on an airport-pair were identified, weighing in each connection by economic impact and quality of connections. FFor this purpose, the **size and economic importance of the destination served and a passenger-centric quality index** are used respectively. Therefore, the index is not simply a measure of flights or routes provided, but also how well an airport is able to serve its passengers.

Source Data	OAG, Milanamos, Cirium, World Bank, IMF
Sample Size	100 Airports in APAC & MID
Reference Period	August 2019 vs August 2022 vs August 2023

Seat Capacity Recovery From Asia-Pacific & Middle East to Other Regions ('23 vs'19)



Air Transport Liberalisation

Air transport liberalisation has shifted how aviation markets are connected through promoting economic freedom and improving air connectivity.

The **ASEAN-EU CATA** reflects the latest policy thinking in air transport regulation and will help bolster the recovery of air connectivity between the two regions following the COVID-19 pandemic.



Emergencies of Hub Airports



New Air Services



Hub-and-spoke Travel Pattern



Lower Fares Due to Competition

In Asia-Pacific, by August 2023, recovery of seat capacity of direct connections from APAC to other regions is showing progress but still in the negative side vs 2019, with flights to Middle East leading the way and surpassing the 2019 level

In Middle East, seat capacity from Middle East to other Regions region should have surpassed the 2019 level to all regions except Europe

The Sky Openness Score

The Sky Openness Score measures the actual openness of countries in the region through factors such as visa simplification, market share and seat capacity of foreign airlines, air services agreements, etc.







The Sky Openness Score

Existing Challenges for Recovery in Asia-Pacific & Middle East

Regulatory Constraints

Potential travel restriction measures and other limitations in traffic rights.

Supply Side Challenges for Airports and Airlines

Challenges for airports and airlines on operational readiness and efforts to rebuild route networks.

Workforce Shortage

Shortage of skilled labour in ensuring operational readiness.

Slot Allocation Inefficiencies and Airport Infrastructure Constraints

Slot misuse and lack of competition of airlines on the international routes. Also challenges on financing airport infrastructure.

Macro-economic Outlook

High inflation rate, rising fuel prices and air fares, reduced disposable income.

Recommendations to Improve Connectivity

- Liberalise traffic rights to enhance connectivity and offer passengers affordable airfares, more choices, and superior service quality.
- Increase airlines' seat capacity, recover and develop routes, and pursue reasonable pricing policies.
- Continue to modernise the slot allocation system to disincentivise slot misuse, increase slot performance and open market to more competition.
- Flexibility to set airport charges to invest in infrastructure and passenger-friendly amenities.
- Reducing visa restrictions to facilitate international travel.
- Taking actions to reduce CO² emissions at the airport towards the net zero goal.



Airport Connectivity Report in Asia-Pacific & Middle East

Executive Summary

In Partnership with



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