

GATO



 **iCADS**
ICAO CIVIL AVIATION
DATA SOLUTIONS

Global Air Transport Optimizer (GATO)

Drive tangible impacts, identify aviation trends, spot commercial opportunities and threats, run high impact reports to sharpen your strategies. Welcome to the new era in aviation business intelligence.





YOUR GATEWAY TO ICAO'S CIVIL AVIATION INTELLIGENCE

Civil Aviation Data Solutions is the portal for all your information needs. The portal was built with the needs of the aviation industry in mind, integrating the entirety of data, business intelligence products as well as a selection of curated ICAO reports and documents.

The all new iCADS portal represents an immersive and holistic experience into ICAO's portfolio of applications; allowing users unified access to the multitude of Data sets as well as business intelligence solutions provided by ICAO.

 **A SINGLE SEARCHABLE DATABASE**
WITH ALL THE INFORMATION YOU NEED TO TAKE ACTION
DON'T WASTE MONEY & TIME | **ULTIMATE DATA SOLUTIONS IS ONE CLICK AWAY**

YOUR GATEWAY TO ICAO'S CIVIL AVIATION INTELLIGENCE

Airlines and airports are seeking the ways to improve efficiency and effectiveness. Improving yields and efficiency is gaining more importance as the result of growing competition. All the stakeholders in aviation needs a better and more reliable business intelligence to strategize and plan. Data-driven decision making is the key element for successful strategies and plans.

iCADS is the largest & complete repository of aviation data solutions allowing users unified to access to the multitude of Data sets as well as business intelligence solutions provided by ICAO.

INSTANTLY INTERPRETABLE

With ICAO's expertise and quality, today, instantly interpretable online data applications are just one click away. You do not need integration, harmonization or other pre-processing. Just focus on your decisions with ICAO's uniqueness, credibility, accuracy and quality.

WHAT YOU WILL HAVE WITH ICADS?



DATA SOLUTIONS



APPLICATIONS



DOCUMENTS



RESEARCH

Thanks to ICAO, now more than 1000 products including data solutions, applications and documents are available in one bundle. With one single payment now, you are able to access all data sets, applications and ICAO documents without any limitation.

CLEAR, EASY-TO-USE, RELIABLE AND ACCURATE

Data-driven decision making is the key element in success. However, data is scattered all around, most of the time dirty and with missing rows and gaps.

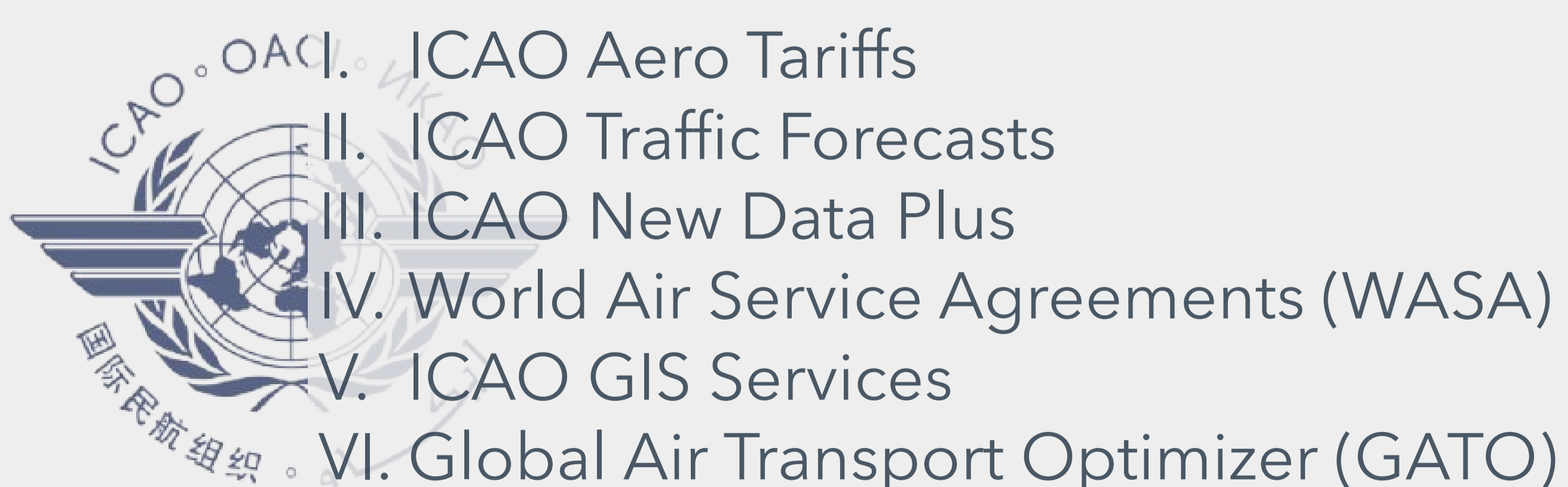
Not only airline data, you need the airport data, route data, country profiles. Not only historical data, you need the reliable and most accurate forecasted data in order not to face surprises in your business. And what about freedoms, privileges and ASA's? For better understanding of routes and profitability, you need traffic segmented by freedoms of air.

Until now, you had to cope with data flows from different data providers with different level of confidence. Your analysts consumed most of their time in merging, joining different data sets from different sources. Most of the time, your analysts have to deal with large data sets with high probability of mistakes.

ICAO's new data platform iCADS saves your organizations from all these worries. iCADS is the ultimate data platform designed by ICAO to bunch together all data solutions you need to strategize and plan.

PIONEERING PRODUCTS

By purchasing GATO, you will receive 1 year unlimited access to below applications with 3 licenses:



This document includes explanations mainly on GATO (Global Air Transport Optimizer). If you believe you need more information about other listed products please visit below link.

GLOBAL AIR TRANSPORT OPTIMIZER

GATO



212

Countries

9,980

Scheduled Airports

1,174

Airlines (Legacy & LC Carriers)

99%

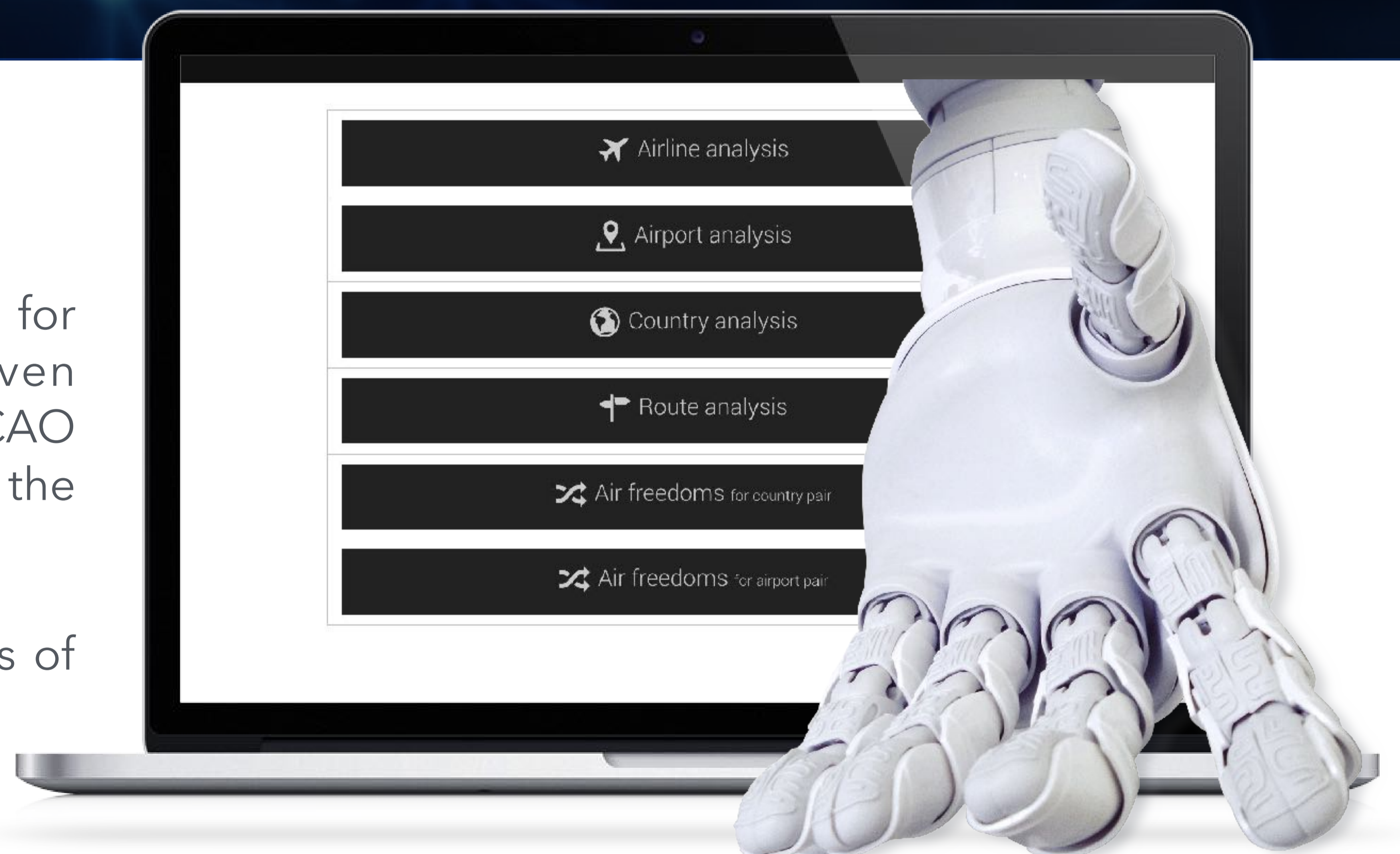
of Global Scheduled Traffic

ULTIMATE DATA SOLUTIONS IS ONE CLICK AWAY

A comprehensive market intelligence tool for strategic decision-making with data-driven clarity: Composition of ICAO expertise, ICAO data forms, and leading data sources in the industry.

GATO was created having in mind the needs of the aviation industry.

For that reason, GATO is a unique application containing behind and beyond connectivity, air freedoms, route profitability, scenario game theory analysis that can be viewed from airline, airport, country or route perspective.



ICAO statistical data reported by member states
OAG Schedules data
MIDT (Marketing Information Data Tapes)

“ A PERFECT COMPOSITION OF MOST POWERFUL DATABASES IN AVIATION WITH 6 EXCLUSIVE MODULES FOR RESULT ORIENTED DATA-DRIVEN DECISIONS

FIND THE DATA YOU NEED FAST

This application currently provides data and value added services from 2011 to 2018.

At the end of each year, new data from external sources including passengers and schedules data is cross referenced for necessary adjustments and cleaned and loaded in the application.



GATO



A SINGLE SEARCHABLE DATABASE WITH ALL THE INFORMATION YOU NEED TO TAKE ACTION

6 EXCLUSIVE MODULES FOR RESULT ORIENTED DATA-DRIVEN DECISIONS

AIRLINE ANALYSIS

Analyze air passenger traffic flows in all markets by airlines. Understand where air passenger traffic originates, connects and ends. With three exclusive sub-modules.

Segment traffic including passenger, seats, and load factors by airline and evolution of traffic over time.

COUNTRY ANALYSIS

Detailed breakdown of outbound traffic in different connectivity scenarios by origin and connecting countries and airports.

View the air transport profile of any country with the most accurate and up-to-date data. Monitor domestic, international, connecting and non-stop traffic of the selected country. View the origin, destination traffics and transfer traffic

CONNECT MARKETS FOR COUNTRY PAIRS

Market share of airlines for selected country pair. The unique feature of this module is the ability to view market share by freedoms of air.

Monitor air freedom (connect market) reports for country pairs, market shares by airlines with the most accurate and up-to-date data feeds. View pax and RPK by freedoms or airlines for the chosen country pairs.

ROUTE PROFITABILITY SOON AVAILABLE

Estimated cash profit of all airlines for selected route.

AIRPORT ANALYSIS

Detailed breakdown of outbound traffic in different connectivity scenarios by origin and connecting airports.

Analyze & understand the traffic flows, market shares and transfer traffic of any airport. View KPI's of the airports. View all breakdowns of traffic from any airport. View the breakdowns of traffic where the chosen airport is the transfer airport.

ROUTE ANALYSIS

Non-stop and connecting traffic for selected route and market share of airlines offering non-stop service.

Monitor traffic statistics between airports pairs. View Total Traffic, Non-Stop and Connecting traffic by routes; the traffic breakdowns for Non-Stop and Connecting Traffic; the market shares by carriers and connecting airports.

CONNECT MARKETS FOR AIRPORT PAIRS

Market share of airlines for selected airport pair. The unique feature of this module is the ability to view market share by freedoms of air.

Monitor air freedom (connect market) reports for airport pairs, market shares by airlines with the most accurate and up-to-date data feeds. View pax and RPK by freedoms or airlines for the chosen airport pairs.

SCENARIO ANALYSIS SOON AVAILABLE

Unique premium module allowing the user to access the shifts in cash profitability under different frequency share scenarios.



“ ALL THE AIRLINES YOU LOOK FOR SINGLE SEARCHABLE DATABASE FOR MORE THAN 1,174 AIRLINES INCLUDING LEGACY CARRIERS AND LCC'S

Segment traffic including passenger, seats, and load factors by airline and monitor evolution of traffic over time.

AIRLINE ANALYSIS MODULE

Analyze air passenger traffic flows in all markets by airlines. Understand where air passenger traffic originates, connects and ends.

Observe the trends of any airline by origin and destinations by using three modules:

- Statistics,
- Map,
- Evolution Over Time

COVERAGE

This application currently provides data and value added services from 2011 to 2018.

At the end of each year, new data from external sources including passengers and schedules data is cross referenced for necessary adjustments and cleaned and loaded in the application.

MAP VIEW

HD PNG FORMAT OUTPUTS

- Leverage the power of your presentations with HD vector maps for any airline's routes in a specific year

VECTOR MAPS ILLUSTRATING ROUTES

- More insightful analysis with map views

INDEPTH LEGENDS AND TOOLTIPS

- View the routes weighted by passenger volumes

IST — Atatürk - Istanbul
 Pax : 5,336

STATISTICS VIEW

CONNECTIONS					
One-way connections					
Departure airport	Arrival airport	Passengers	Seats	Load factor	
Astürk - Istanbul	Firtherios Veszélos - Athens	235,560 (0.36%)	263,971 (0.31%)	89.24%	
Adnan Menderes - Izmir	Sabiha Gökçen - Istanbul	388,837 (0.60%)	450,121 (0.53%)	86.38%	
Rahha Çökçen - Istanbul	Antalya	781,800 (1.19%)	920,440 (1.08%)	85.47%	

"XLSX" FORMAT REPORT OUTPUT

SUMMARY BOX WITH KEY KPI's

- Total Pax
- Total Seats
- Load Factor
- Total Flights
- Seats per Flight
- Number of 1 Way Connections

LIST & COMPARE ALL 1 WAY CONNECTIONS

- Destination and Arrival Airports by codes / names
- Number of Passengers
- Seats
- Load Factor
- Order the routes by KPI's.

"EVOLUTION OVER TIME" VIEW

MONTHLY & ANNUAL BREAKDOWNS

- Monitor the trends over time for any airlines including legacy carriers and LLC's.
- View & compare the annual or monthly trends.

MONTHLY & ANNUAL BREAKDOWNS

- Fully dynamic chart illustrating "Load Factor", "Destinations", "Non-Stop Pax" and "Connecting Pax" monthly or annually for any selected airline.

September 2014

Load factor	79.64%
Destinations	273
Non-stop pax	2,058,612
Connecting pax	2,876,300

GATO

AIRPORT ANALYSIS MODULE



9,980 SCHEDULED AIRPORTS

ALL BREAKDOWNS OF TRAFFIC, DOMESTIC & INTERNATIONAL
INCLUDING NON-STOP, CONNECTING, BEYOND, BEHIND

Analyze traffic by breakdowns, for different connectivity scenarios

AIRPORT ANALYSIS MODULE

Understand the traffic flows, market shares and transfer traffic of any airport. View KPI's of the airports.

View the detailed breakdown of outbound traffic in different connectivity scenarios by origin and connecting airports.

Use the vector map module to get more insights about the traffic flows by all possible breakdowns.

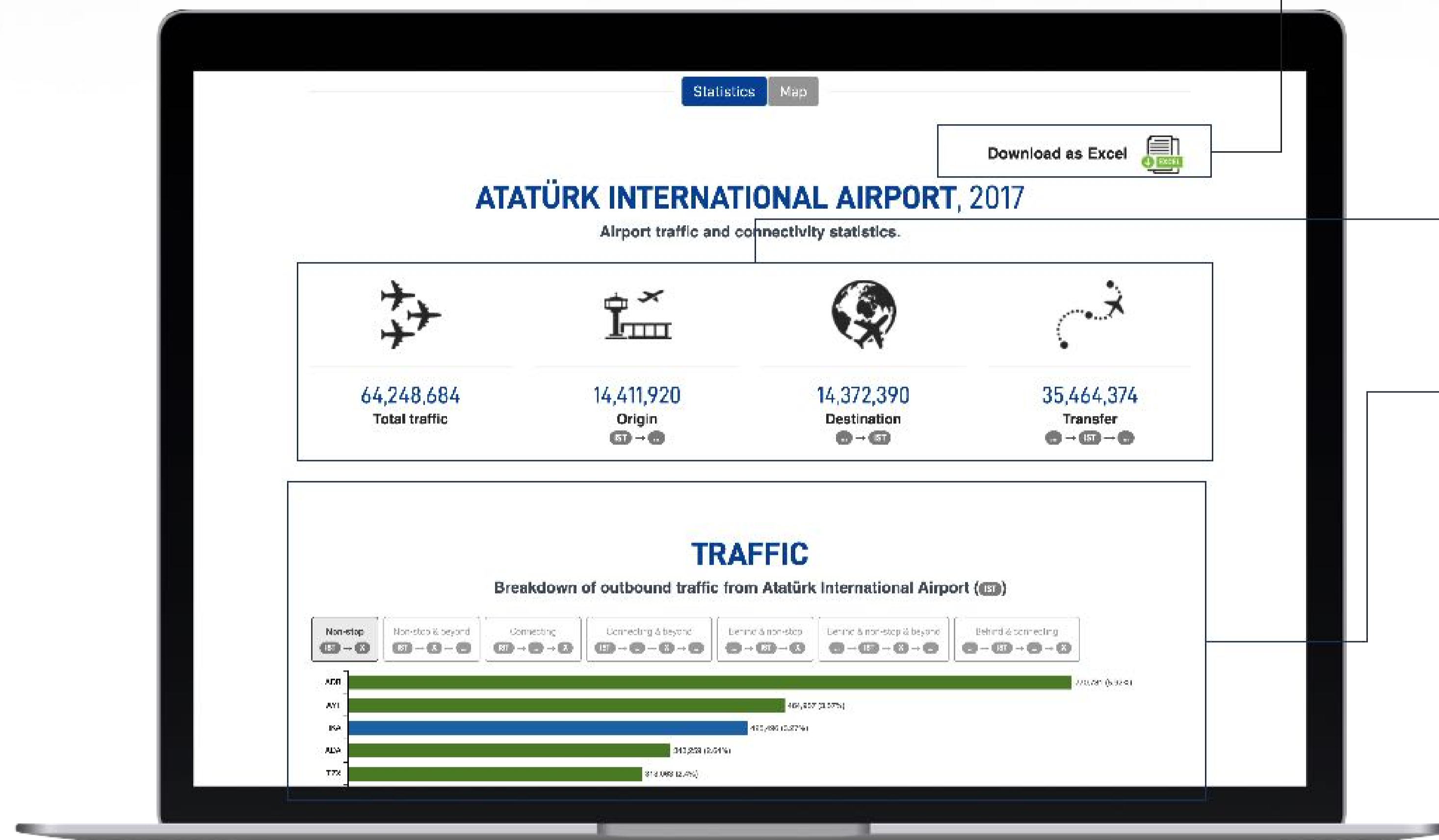
COVERAGE

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STATISTICS VIEW

Including Summary, Traffic, Market Share and Transfer Traffic



"XLSX" FORMAT REPORT DOWNLOAD

SUMMARY BOX WITH KEY KPI's

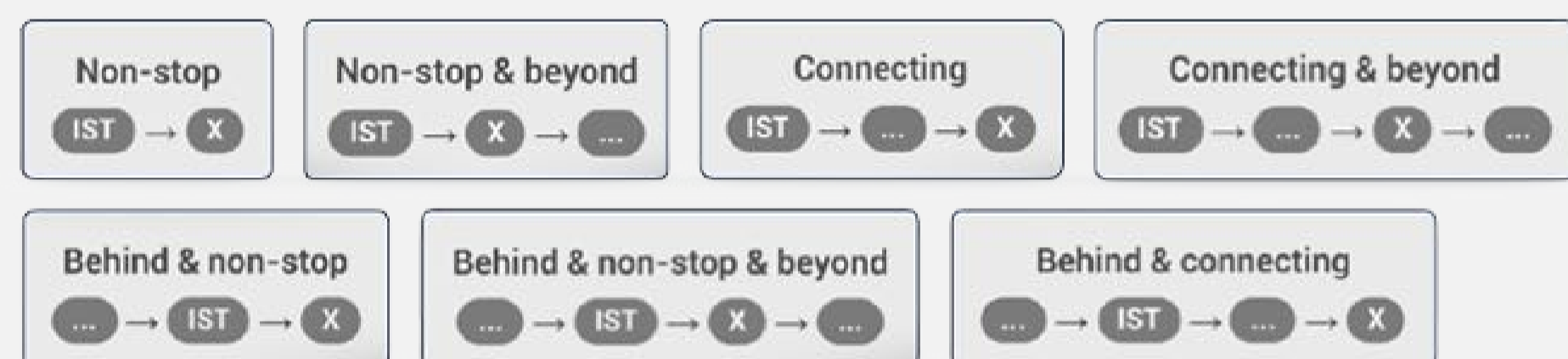
- Airport traffic and connectivity statistics.
- Total Traffic by PAX
- Origin Traffic by PAX
- Destination Traffic by PAX

THREE INSIGHTFUL DYNAMIC BAR CHARTS

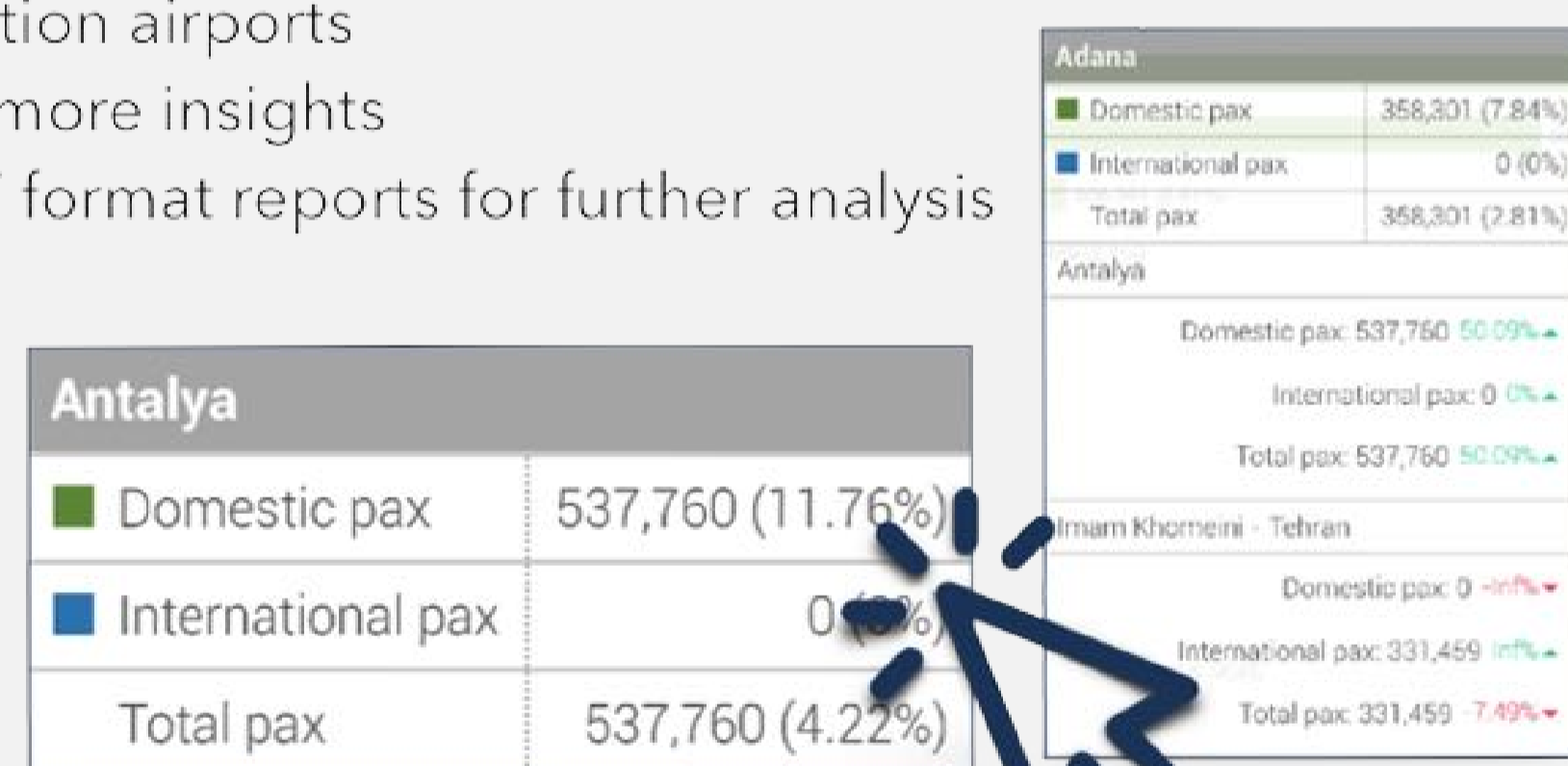
- A. Traffic Table
 - Breakdown of outbound traffic from the selected airport
- B. Market Share Table
 - Outbound traffic market share for the selected airport
- C. Transfer Traffic Table
 - Breakdown of traffic where the selected airport is the transfer airport

TRAFFIC TABLE All Breakdowns of traffic in one chart

MONITOR THE BREAKDOWN OF OUTBOUND TRAFFIC FROM ANY AIRPORT IN ALL SEGMENTS



- Monitor all the breakdowns of outbound traffic as illustrated above for IST
- View domestic and international traffic
- By clicking the corresponding bars, compare the breakdowns for multiple destination airports
- Use tooltips for more insights
- Download "xlsx" format reports for further analysis



WHAT IS MORE IN AIRPORT ANALYSIS MODULE?

MONITOR & COMPARE MARKET SHARES BY AIRLINES WITH MARKET SHARE TABLE

- Monitor the market shares by PAX volumes
- View all the airlines running flights from the selected airport
- By clicking the corresponding bars, compare the shares in the tooltips
- Use tooltips for more insights
- Download "xlsx" format reports for further analysis

SPECIFY THE SHORTEST CONNECTING TIME TO MONITOR THE CORRECT TRANSFER TRAFFIC YOU DESIRE

- Adjust the desired SCT (MNT) in order to view the required routes for the transfer traffic
- SCT (MCT): The shortest connecting time (for a given route) that is greater or equal to the minimum connecting time which can be set in the report properties.

MONITOR TRANSFER TRAFFIC WITH TRANSFER TRAFFIC CHART

- Monitor the breakdowns of transfer traffic as routes
- View domestic and international traffic
- View / Sort by the passenger volumes
- Download "xlsx" format reports for further analysis

VECTOR MAPS WITH LEGENDS ,TOOLTIPS AND ILLUSTRATED ROUTES WITH ALL BREAKDOWNS OF TRAFFIC

- Leverage the power of your presentations with hd vector maps for any airline's routes in a specific year.
- More insightful analysis with map views

GATO

COUNTRY ANALYSIS MODULE



MONITOR & ANALYZE ANY COUNTRY

O&D ONE WAY TRAFFIC FROM A GIVEN COUNTRY TO THE REST OF THE WORLD
WITH 8 DYNAMIC AND INSIGHTFUL CHARTS AND MAP SUB-MODULE

COUNTRY ANALYSIS MODULE

Detailed breakdown of outbound traffic in different connectivity scenarios by origin and connecting countries and airports.

View the air transport profile of any country with the most accurate and up-to-date data. Monitor domestic, international, connecting and non-stop traffic of the selected country. View the origin, destination traffics and transfer traffic.

COVERAGE

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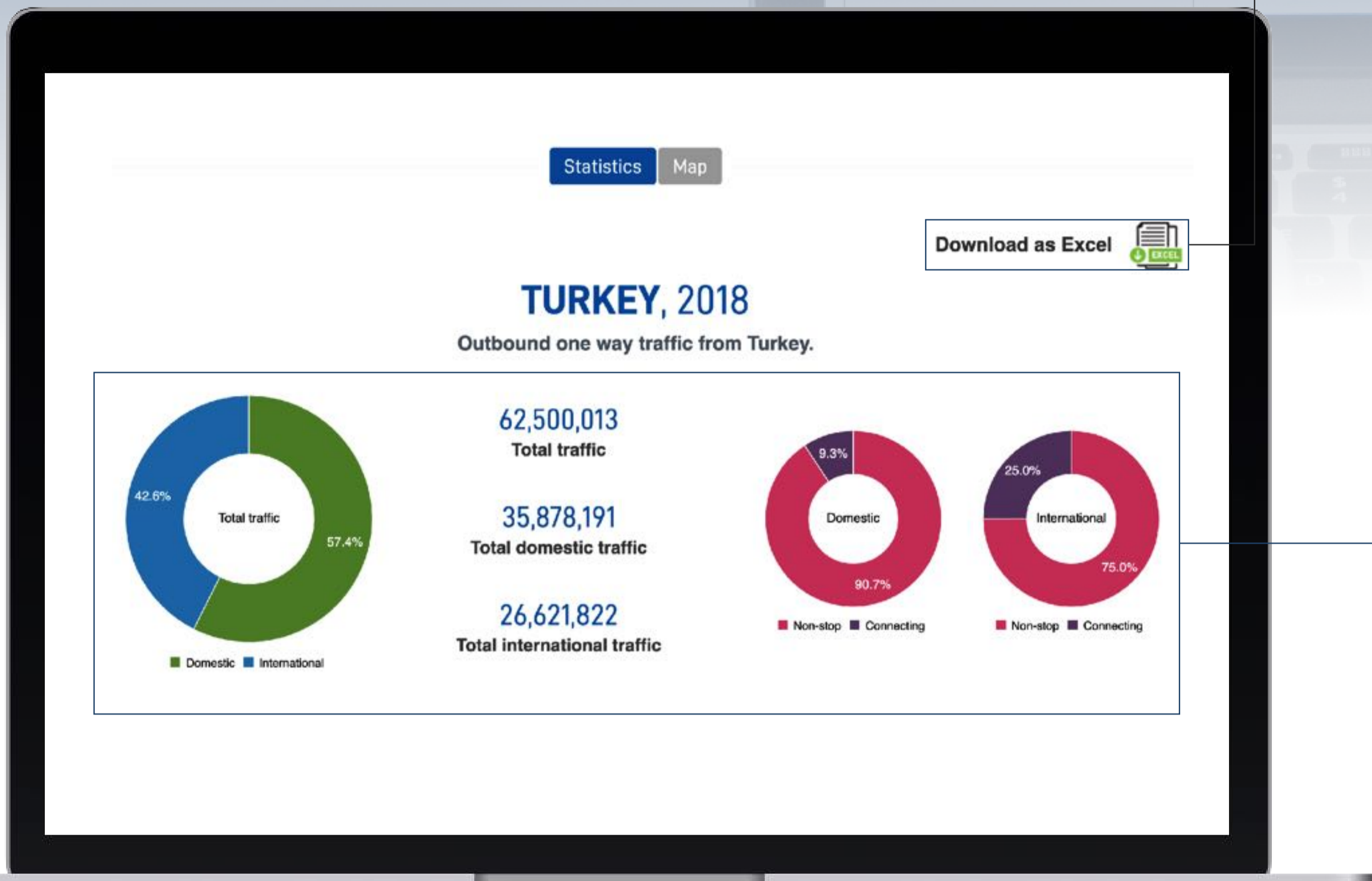
Major international air traffic originating from Turkey in 2018



"XLSX" FORMAT REPORT DOWNLOAD

SUMMARY VIEW

Including Summary, Traffic, Market Share and Transfer Traffic

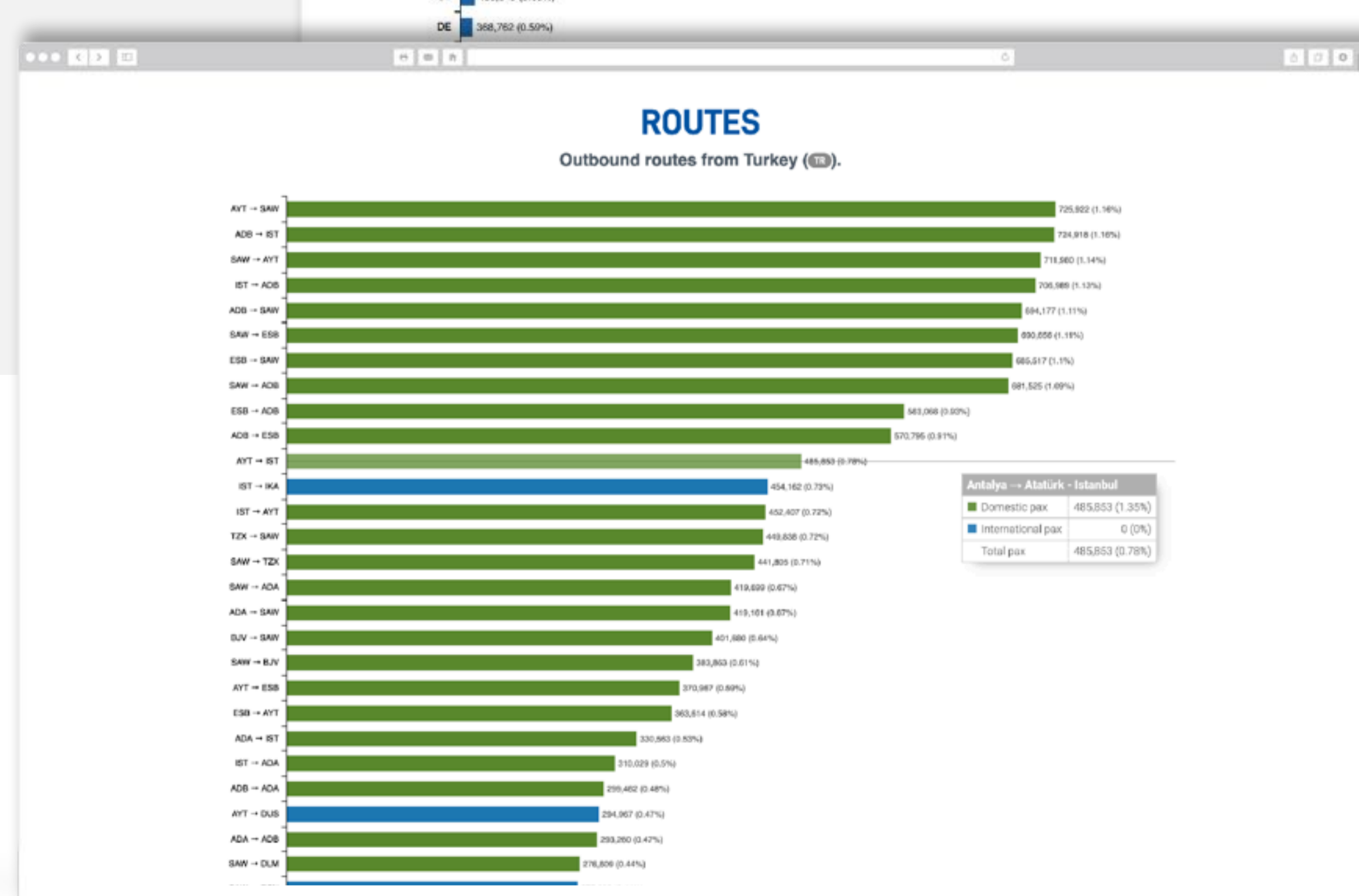
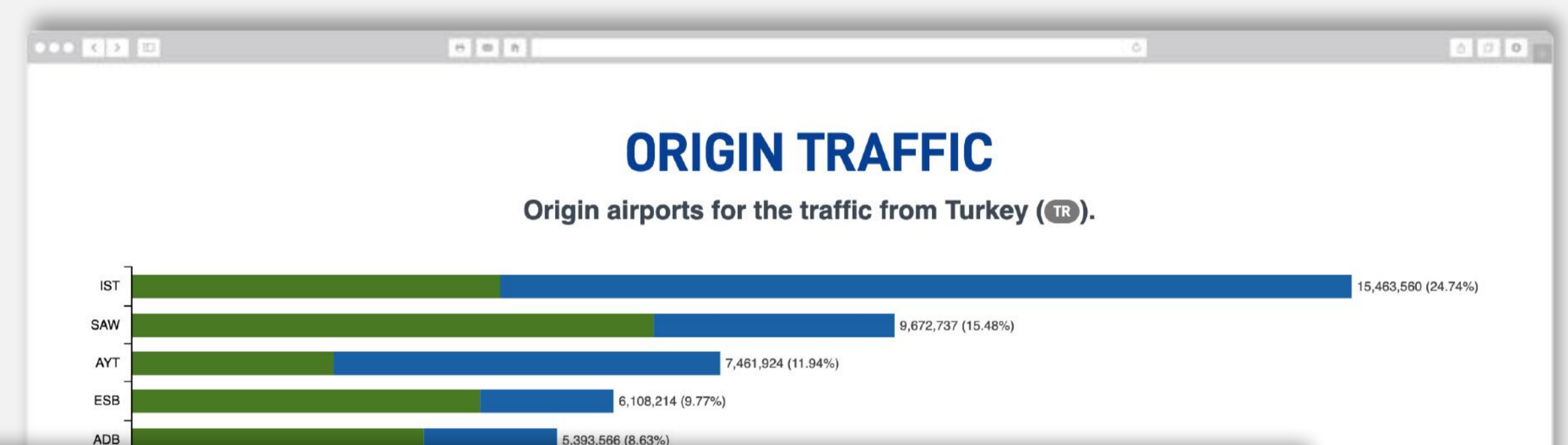


SUMMARY BOX WITH KEY KPI's

- Breakdowns of outbound one-way traffic
 - Total traffic,
 - Total domestic traffic,
 - Total international traffic
- Breakdown of domestic and international traffic:
 - Non-stop
 - Connecting

+7 MORE CHARTS & INTERACTIVE VECTOR MAP

- Origin Traffic Table:
 - Origin airports for the traffic from any selected country
 - Last domestic airports for international traffic from
- Destination Traffic Table:
 - Country destinations for traffic that originated from
 - Airport destinations for traffic that originated from
- Market Share Table:
 - Market share for traffic that originated from
- Transfers Table:
 - Transfer airports on outbound routes
- Routes Table:
 - All outbound routes from



GATO

ROUTE ANALYSIS MODULE



FOREWARNED IS FOREARMED
O&D ONE WAY TRAFFIC FROM A GIVEN COUNTRY TO THE REST OF THE WORLD
WITH 8 DYNAMIC AND INSIGHTFUL CHARTS AND MAP SUB-MODULE

ROUTE ANALYSIS MODULE

Non-stop and connecting traffic for selected route and market share of airlines offering non-stop service.

Monitor traffic statistics between airports pairs. View Total Traffic, Non-Stop and Connecting traffic by routes; the traffic breakdowns for Non-Stop and Connecting Traffic; the market shares by carriers and connecting airports.

COVERAGE

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SUMMARY VIEW

Including Traffic Breakdowns

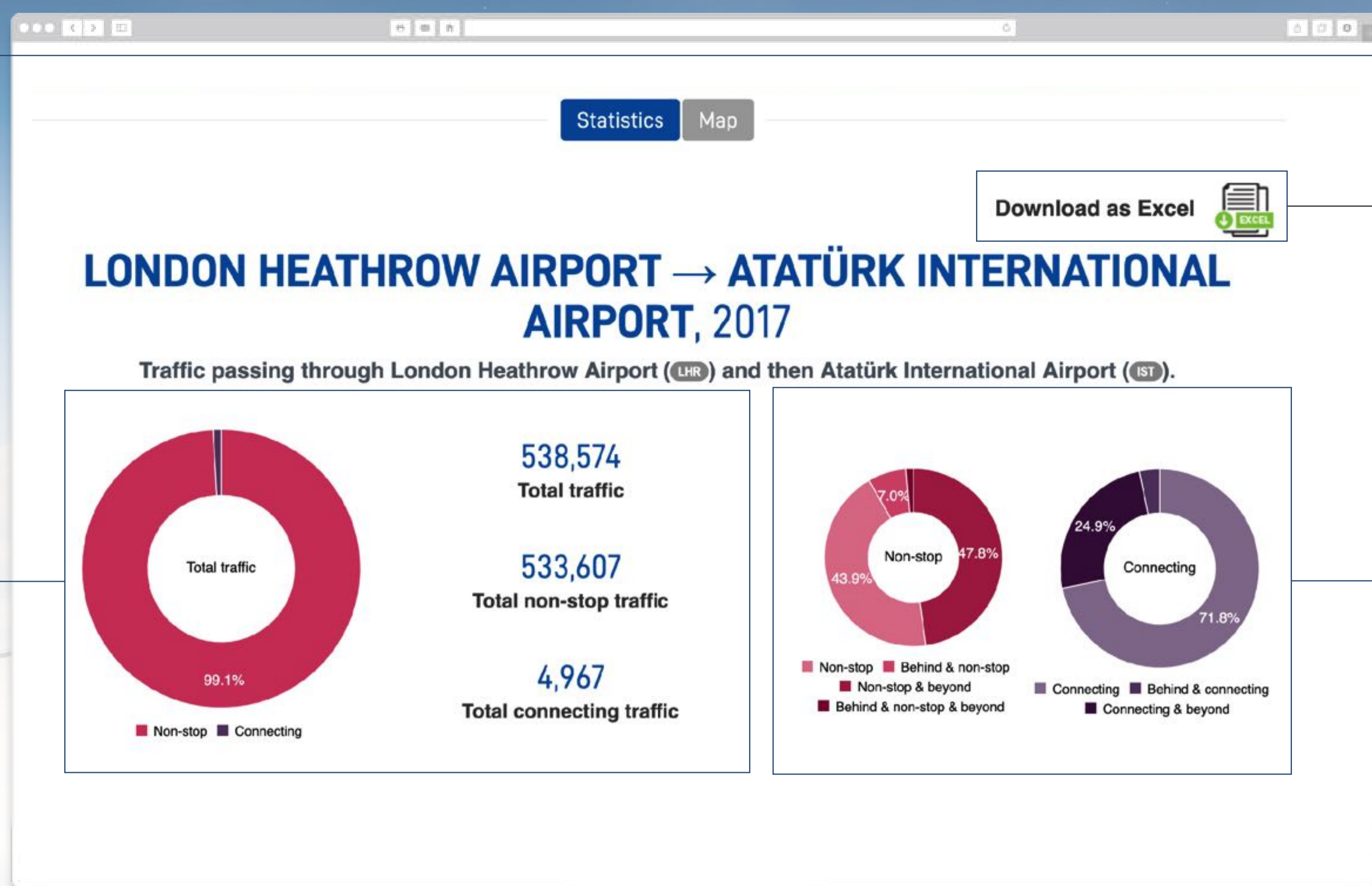
"XLSX" FORMAT REPORT OUTPUT

TOTAL TRAFFIC

- Total Traffic
- Total Non-Stop Traffic
- Total Connecting Traffic

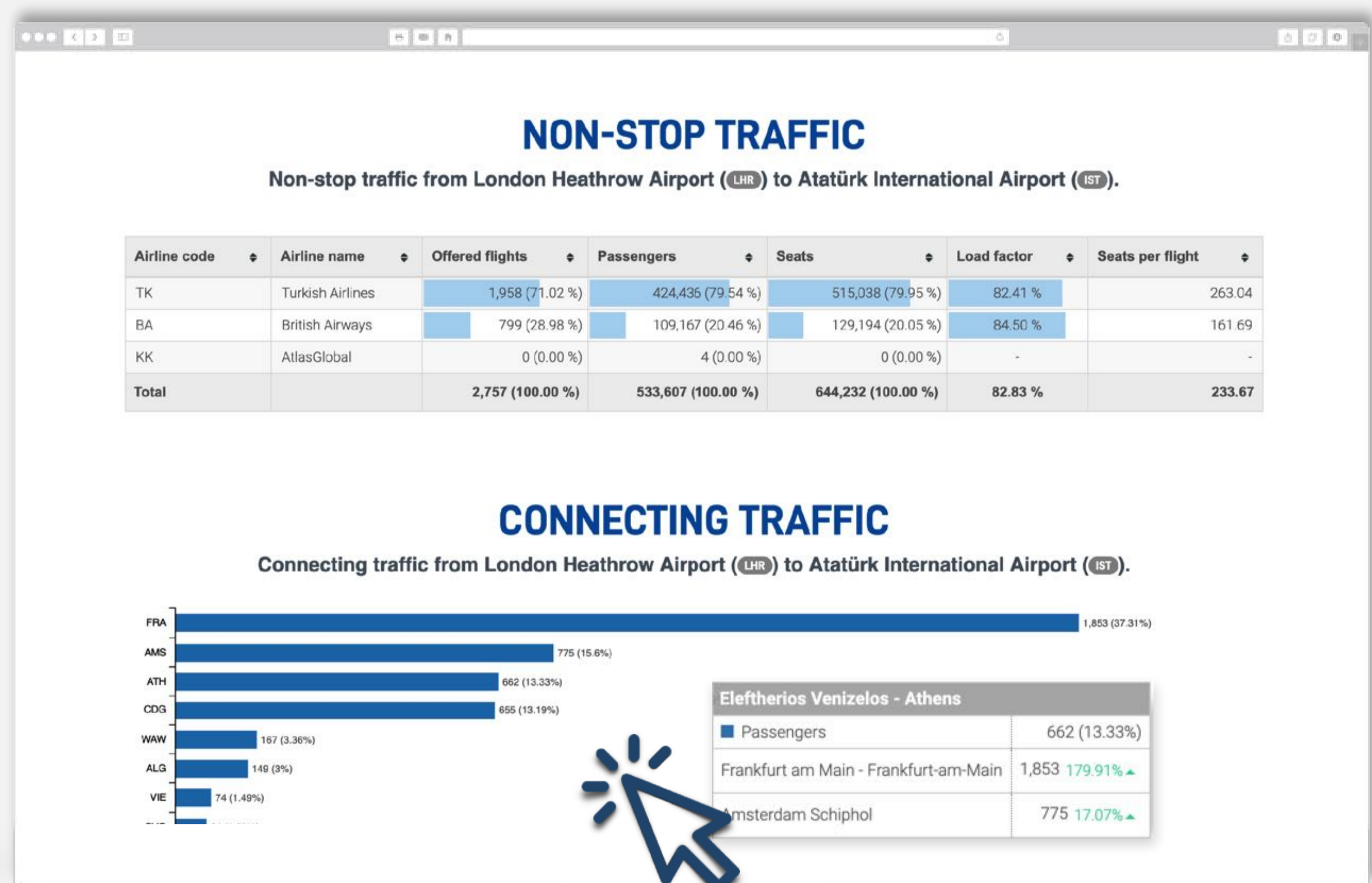
BREAKDOWNS OF NON-STOP & TOTAL TRAFFIC

- Non-Stop Traffic
 - Non-Stop
 - Behind & Non-Stop
 - Non-Stop & Beyond
 - Behind & Non-Stop
- Connecting Traffic
 - Connecting
 - Behind & Connecting
 - Connecting & Beyond



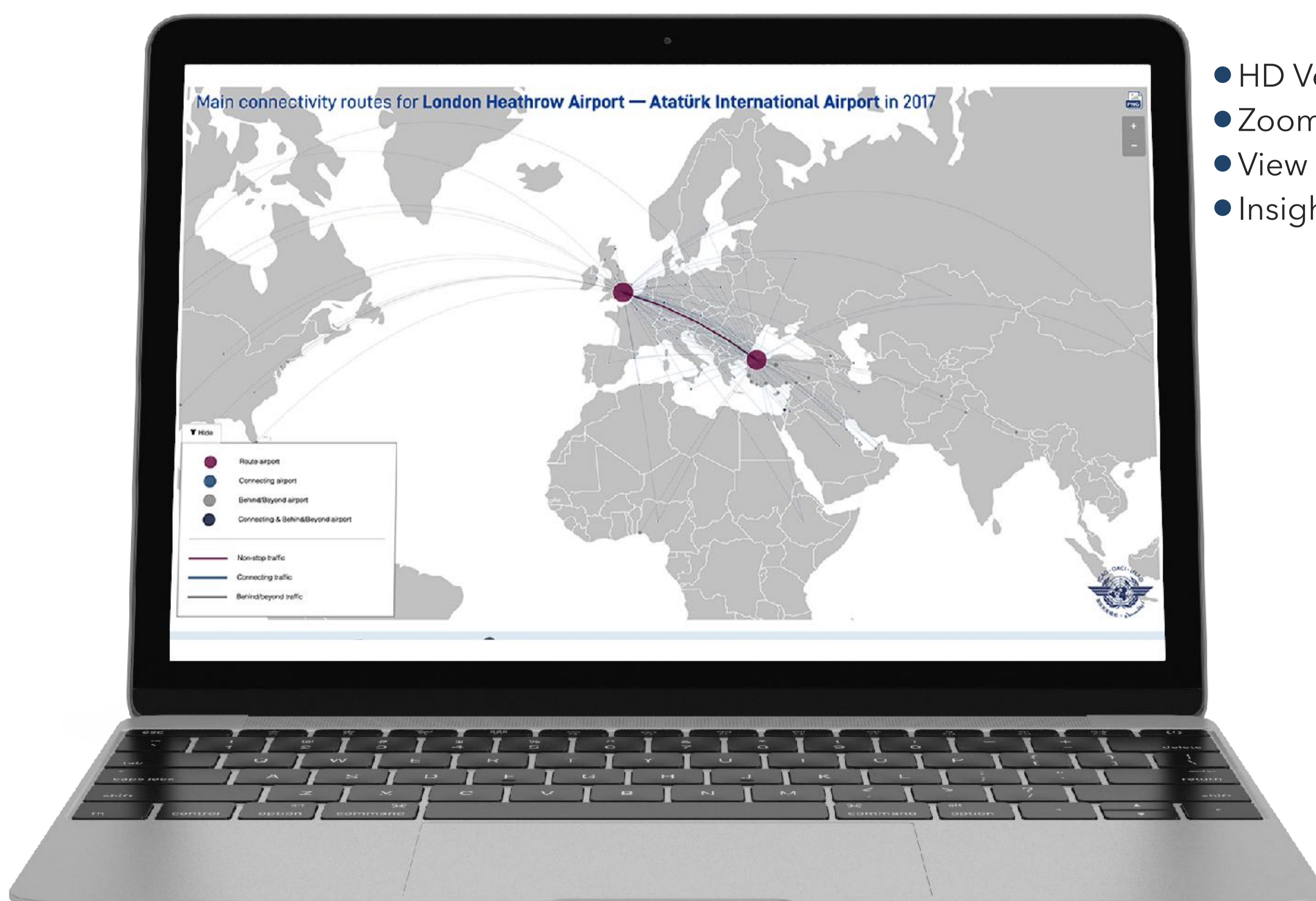
NON-STOP TRAFFIC & CONNECTING TRAFFIC BREAKDOWNS

- Non-Stop Traffic Table:
 - Non-Stop Traffic by Airlines Between Selected Airlines
 - Airline Name & Code
 - Number of Offered Flights
 - Number of Passengers Carried
 - Seats
 - Load Factor by Airlines
 - Seats Per Flight



- Connecting Traffic Table:
 - Connecting Traffic by Connection Airports
 - Number of Passengers Carried by Connection Airports
 - Insightful Tooltips to compare the connecting airports

VECTOR MAPS WITH LEGENDS, TOOLTIPS AND ILLUSTRATED ROUTES WITH ALL BREAKDOWNS OF TRAFFIC



- HD Vector map with PNG output option
- Zoom in / Zoom Out to view all the routes
- View all the traffic breakdowns
- Insightful tooltips with traffic breakdowns

LHR → IST

Pax: 533,607
Share: 99.08%

Operating airlines:
TK: 424,436 (79.54%)
BA: 109,167 (20.46%)
KK: 4 (0%)

GATO

AIR FREEDOMS MODULES

INDIRA GANDHI INTERNATIONAL AIRPORT TO JOHN F KENNEDY INTERNATIONAL AIRPORT, 2017

Air freedoms for traffic from Indira Gandhi International Airport (IGI) to John F Kennedy International Airport (JFK)

Airline code	Airline name	Freedom	Pax	RPK
AI	Air India	3	38,247 (28.16 %)	443,399,432 (35.74 %)
EK	Emirates	6	16,221 (16.18 %)	212,745,265 (17.00 %)
EY	Etihad Airways	5	9,577 (9.56 %)	127,433,099 (10.13 %)
VS	Virgin Atlantic Airways	6	8,642 (8.62 %)	105,948,999 (8.43 %)
SV	Aeroflot Russian Airlines	6	4,135 (4.13 %)	48,959,454 (3.89 %)
BA	British Airways	6	3,093 (3.09 %)	37,923,329 (3.02 %)
LH	Lufthansa German Airlines	6	2,647 (2.64 %)	32,550,755 (2.59 %)
QR	Qatar Airways	6	2,325 (2.32 %)	33,584,998 (2.67 %)
TK	Turkish Airlines	6	1,775 (1.77 %)	21,752,957 (1.73 %)
AF	Air France	6	1,585 (1.58 %)	19,605,736 (1.56 %)
LX	Swire/Crossair	6	1,445 (1.44 %)	17,957,931 (1.43 %)
CZ	China Southern Airlines	6	1,445 (1.44 %)	17,957,931 (1.43 %)
CA	Air China	6	664 (0.66 %)	11,005,164 (0.88 %)
DL	Delta/Pacific Airways	7	523 (0.52 %)	7,739,413 (0.62 %)
MU	China Eastern Airlines	6	514 (0.51 %)	8,577,386 (0.68 %)
SV	Saudi Arabian Airlines	6	499 (0.50 %)	8,056,732 (0.64 %)
NH	All Nippon Airways	6	347 (0.35 %)	4,880,651 (0.39 %)
AZ	Alitalia - Societa Aerea Italiana S.p.A	6	261 (0.26 %)	4,363,223 (0.35 %)
OZ	Alpiro Airlines	6	155 (0.15 %)	1,991,833 (0.16 %)
FZ	Flydubai	6	126 (0.12 %)	1,985,444 (0.16 %)
			105 (0.10 %)	1,358,682 (0.11 %)

INDIRA GANDHI INTERNATIONAL AIRPORT TO JOHN F KENNEDY INTERNATIONAL AIRPORT, 2017

Air freedoms for traffic from Indira Gandhi International Airport (IGI) to John F Kennedy International Airport (JFK)

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UNIQUENESS, CREDIBILITY, COMPLETENESS

VIEW MARKET SHARE BY FREEDOMS OF AIR. UNIQUE DATABASE, AVAILABLE NO WHERE ELSE

2 UNIQUE MAIN MODULES: COUNTRY PAIRS, AIRPORT PAIRS

AIR FREEDOMS MODULES

Market share of airlines for selected country pair or airport pairs. The unique feature of this module is the ability to view market share by freedoms of air.

Monitor air freedom (connect market) reports for country pairs / airport pairs, market shares by airlines with the most accurate and up-to-date data feeds. View pax and RPK by freedoms or airlines for the chosen country pairs.

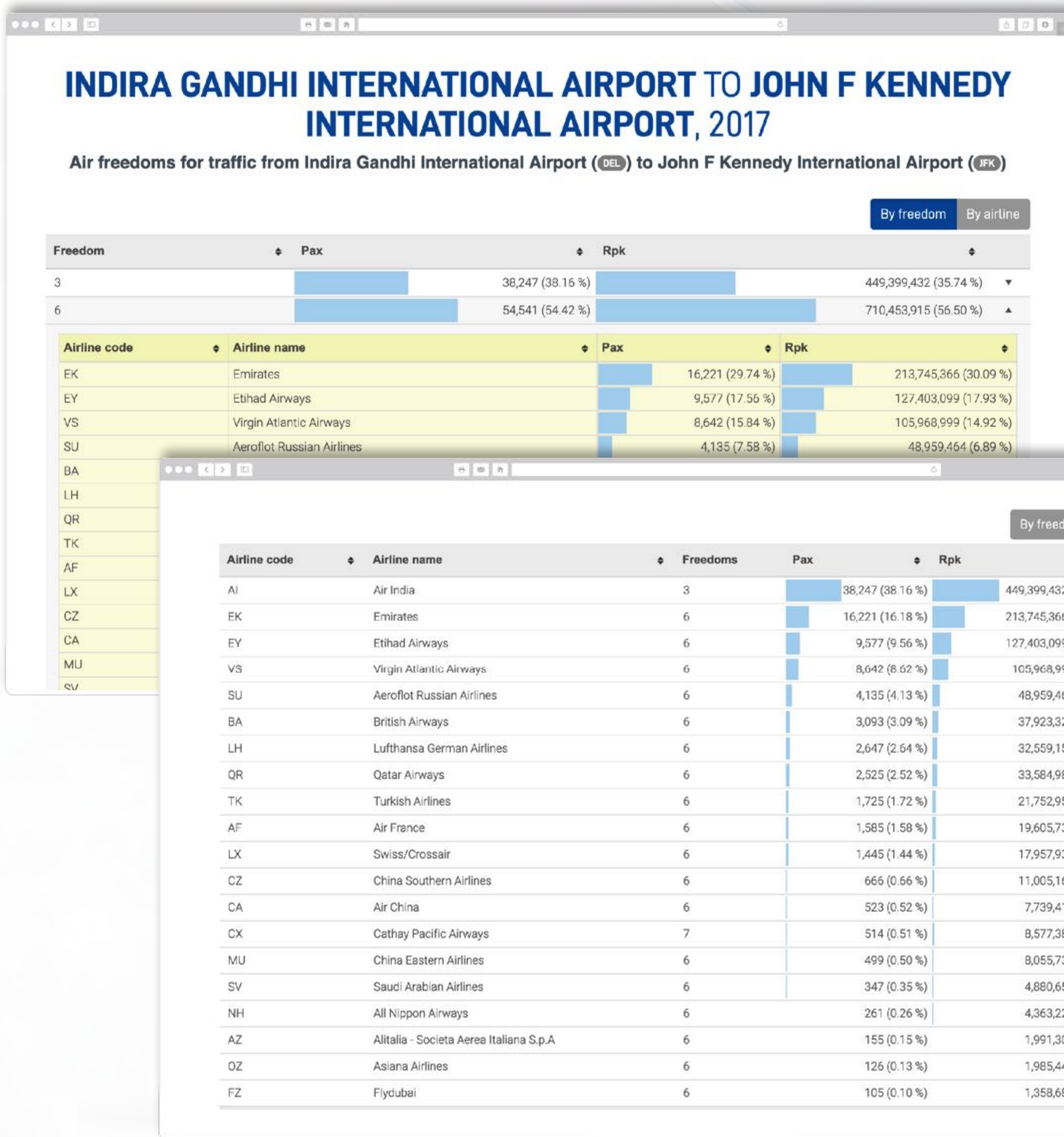
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MULTI-DIMENSIONAL AGGREGATION

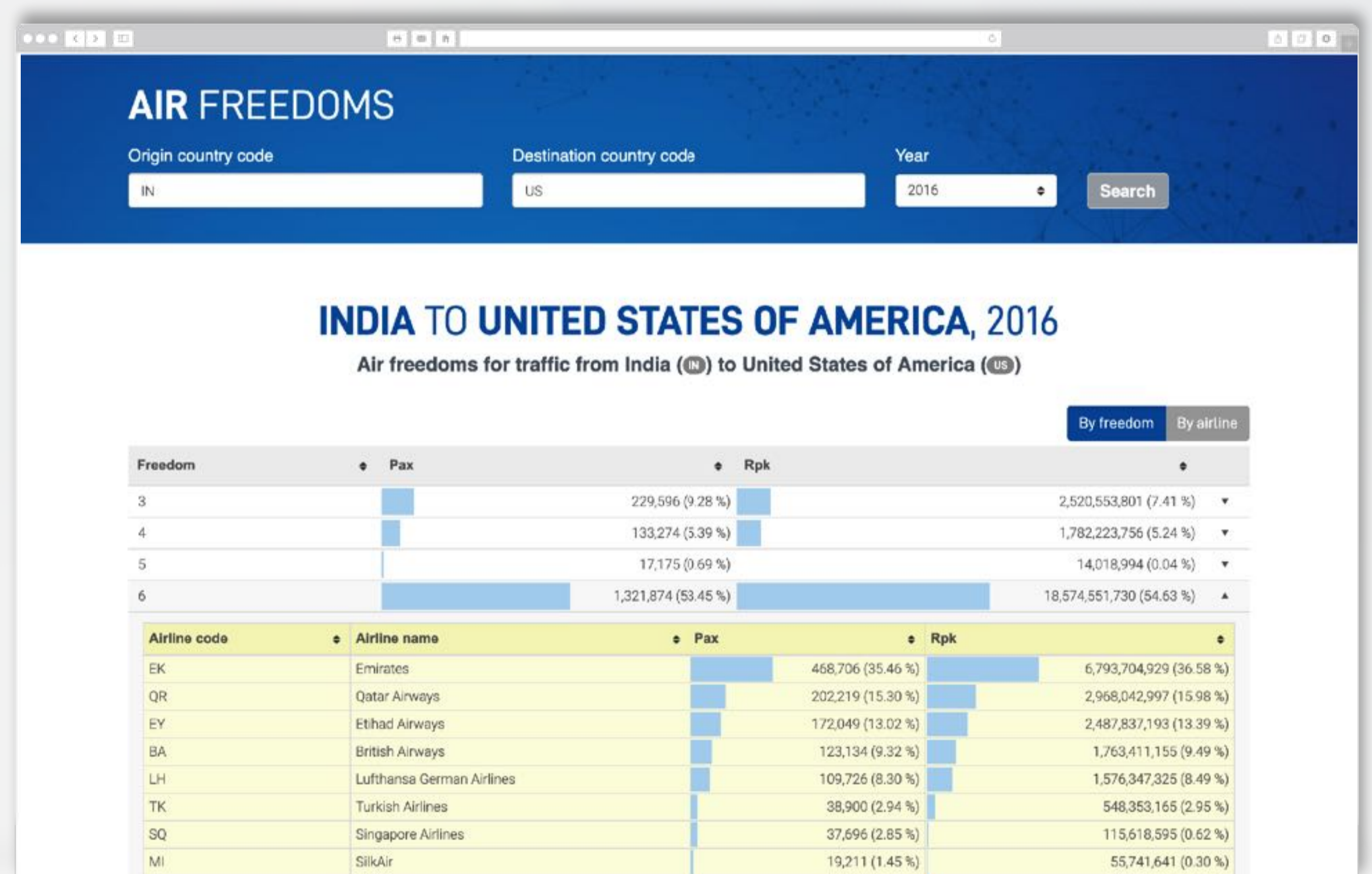
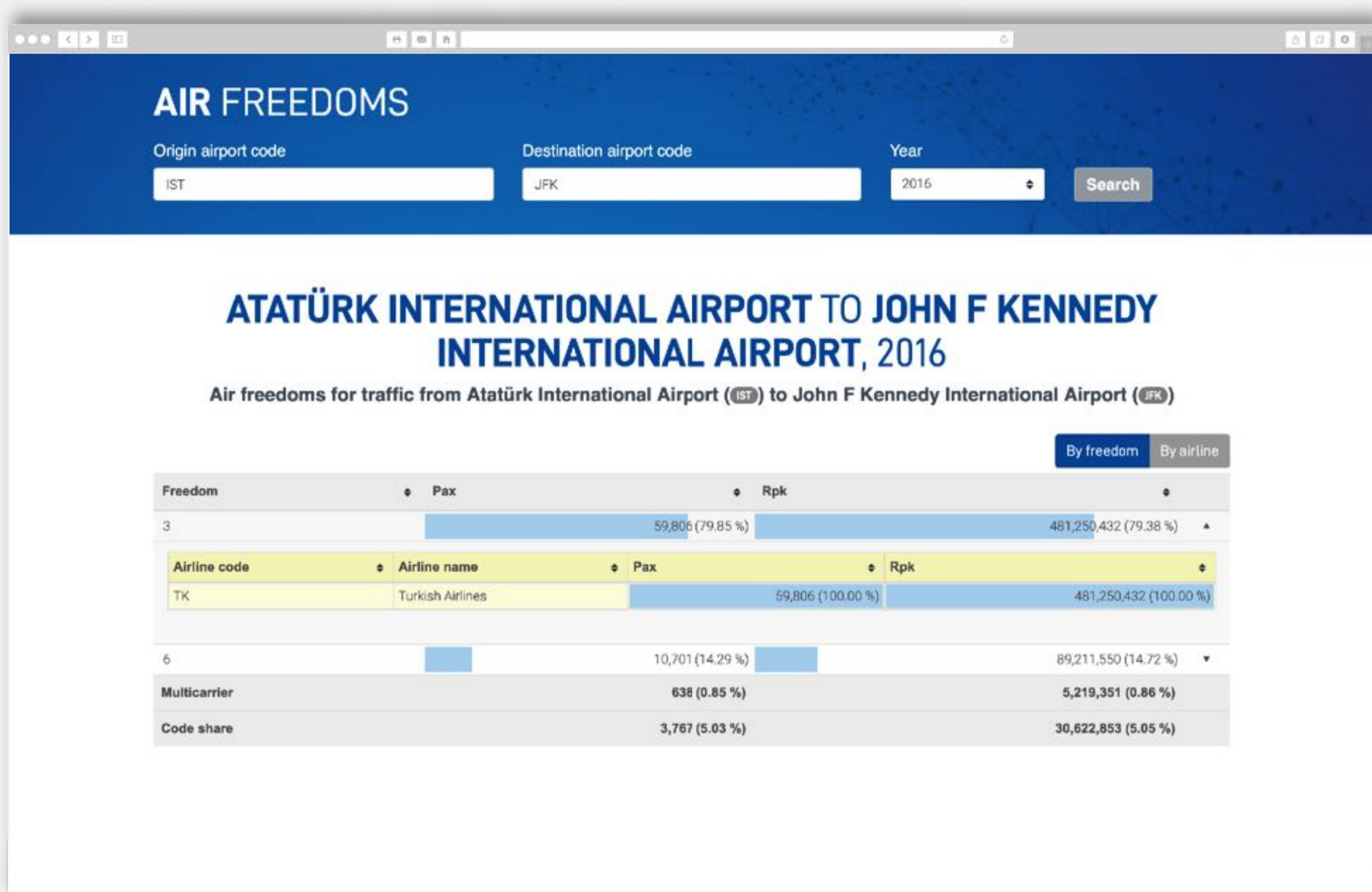
View market shares by freedoms: Airport Pairs & Country Pairs.



TRAFFIC BY FREEDOMS AND AIRLINES

- View the traffic breakdowns between any selected airport pair / country pair by air freedoms
- Monitor "Pax" and "Rpk" volumes by freedoms and airlines for airport pairs
- Use two different dynamic views to query by Freedoms and / or airlines
- User friendly and easy query with nested table structure

2 MODULES: AIR FREEDOMS BY COUNTRY PAIRS & BY AIRPORT PAIRS



MONITOR CODESHARE AND MULTICARRIER TRAFFIC

- View the "Pax" and "Rpk" shares of Codeshares for any airport pair
- View the "Pax" and "Rpk" shares of Multi-carriers for any airport pair

MulticARRIER	931 (0.93 %)	12,230,718 (0.97 %)
Code share	6,153 (6.14 %)	78,777,223 (6.27 %)

DO YOU NEED THE ACCURATE DATA WITH CREDIBILITY?

What if you could satisfy all the data needs of your organization in one place? Without hesitation on accuracy, completeness, quality or credibility. Today get your place in ICAO's ultimate data solutions platform.

By purchasing GATO, you will receive 1 year unlimited access to below products with 3 licenses:

- 
- I. ICAO Aero Tariffs
 - II. ICAO Traffic Forecasts
 - III. ICAO New Data Plus
 - IV. World Air Service Agreements (WASA)
 - V. ICAO GIS Services
 - VI. Global Air Transport Optimizer (GATO)

REQUEST DEMO ACCESS TO GATO



Fill the form available in below link to contact us for demo access with 2016 data:

<http://bit.ly/gato-demo-request>

PURCHASE GATO & ICADS



Fill the form available in below link to contact us to purchase 1 year full access subscription with three licenses:

<http://bit.ly/gato-price-request>

“EVERYTHING YOU NEED FOR AVIATION ANALYSIS
ALL IN 1 BUNDLE”
DATA-DRIVEN, ACCURATE, FAST & ELEGANT







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