



AVIATION DATA AND ANALYSIS SEMINAR

08-12 July 2019
ISTANBUL



GATO

GLOBAL AIR TRANSPORT OPTIMIZER

Drive tangible impacts, identify aviation trends, spot commercial opportunities and threats, run high impact reports to sharpen your strategies.

Alper AKBAŞ
Analytica Advisory Group
alper.akbas@analyticaadvisory.com



Your gateway to ICAO's Civil Aviation Intelligence.

INDEX PIONEERING PRODUCTS

1 ICAO AERO TARIFFS

2 TRAFFIC FORECASTS

3 ICAO NEW DATA PLUS

4 AIR SERVICE AGREEMENTS (WASA)

5 GLOBAL AIR TRANSPORT OPTIMISATION - GATO



DATA SOLUTIONS



APPLICATIONS



DOCUMENTS



RESEARCH

+1,000 Products
ALL IN ONE BUNDLE



GLOBAL AIR TRANSPORT OPTIMIZER

GATO



212

Countries

9,980

Scheduled Airports

1,174

Airlines (Legacy & LC Carriers)

99%

of Global Scheduled Traffic

6 EXCLUSIVE MODULES FOR RESULT ORIENTED DATA-DRIVEN DECISIONS

“ **COMPREHENSIVE, ACCURATE, RELIABLE & AFFORDABLE**
UNIQUE DATA SOURCE, UNIQUE EXPERTISE, ASSISTED BY MACHINE LEARNING ALGORITHMS ”



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

Run by ICAO, thus reliable, accurate and affordable.

ALL IN 1 SOLUTION WITH 6 EXCLUSIVE MODULES



GLOBAL AIR TRANSPORT OPTIMISATION





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

01

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.

03

COUNTRY ANALYSIS

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

05

CONNECT MARKETS FOR COUNTRY PAIRS

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.

02

AIRPORT ANALYSIS

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.

04

ROUTE ANALYSIS

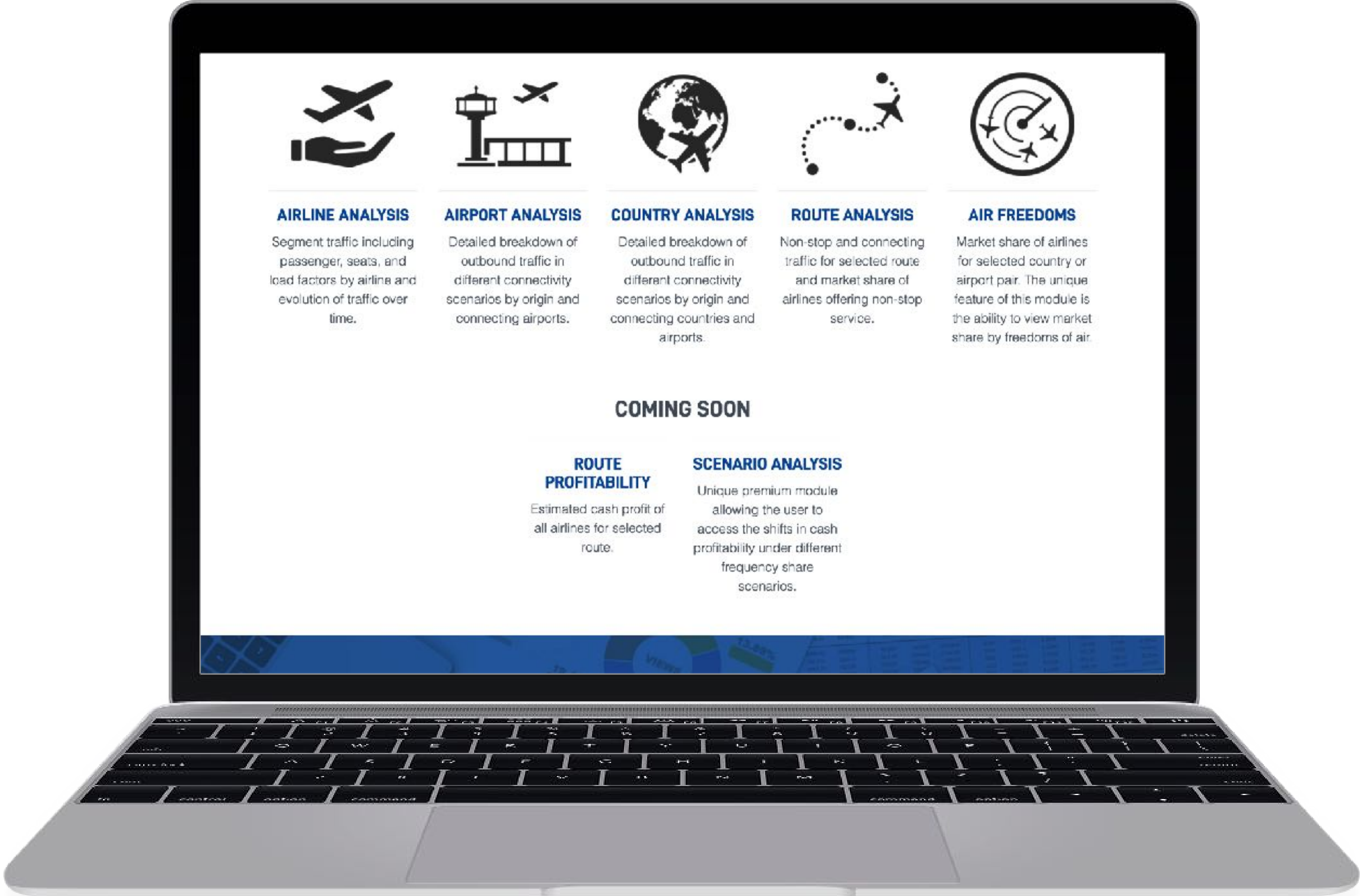
Monitor traffic statistics between airports pairs. View Total Traffic, Non-Stop and Connecting traffic by routes; the traffic breakdowns for Non-Stop and Connecting Traffic; the market shares by carriers and connecting airports.

06

CONNECT MARKETS FOR AIRPORT PAIRS

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.

VERY SOON..





AIRLINE ANALYSIS

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



AIRPORT ANALYSIS

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



COUNTRY ANALYSIS

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



ROUTE ANALYSIS

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



AIR FREEDOMS

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

COMING SOON

ROUTE PROFITABILITY

Estimated cash profit of all airlines for selected route.

SCENARIO ANALYSIS

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



GATO



AIRLINE ANALYSIS MODULE



INDEX



AIRLINE ANALYSIS MODULE



ALL THE AIRLINES YOU LOOK FOR

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

Years included: 2011-2018



AIRLINE ANALYSIS MODULE

I. "STATISTICS" Sub-Module



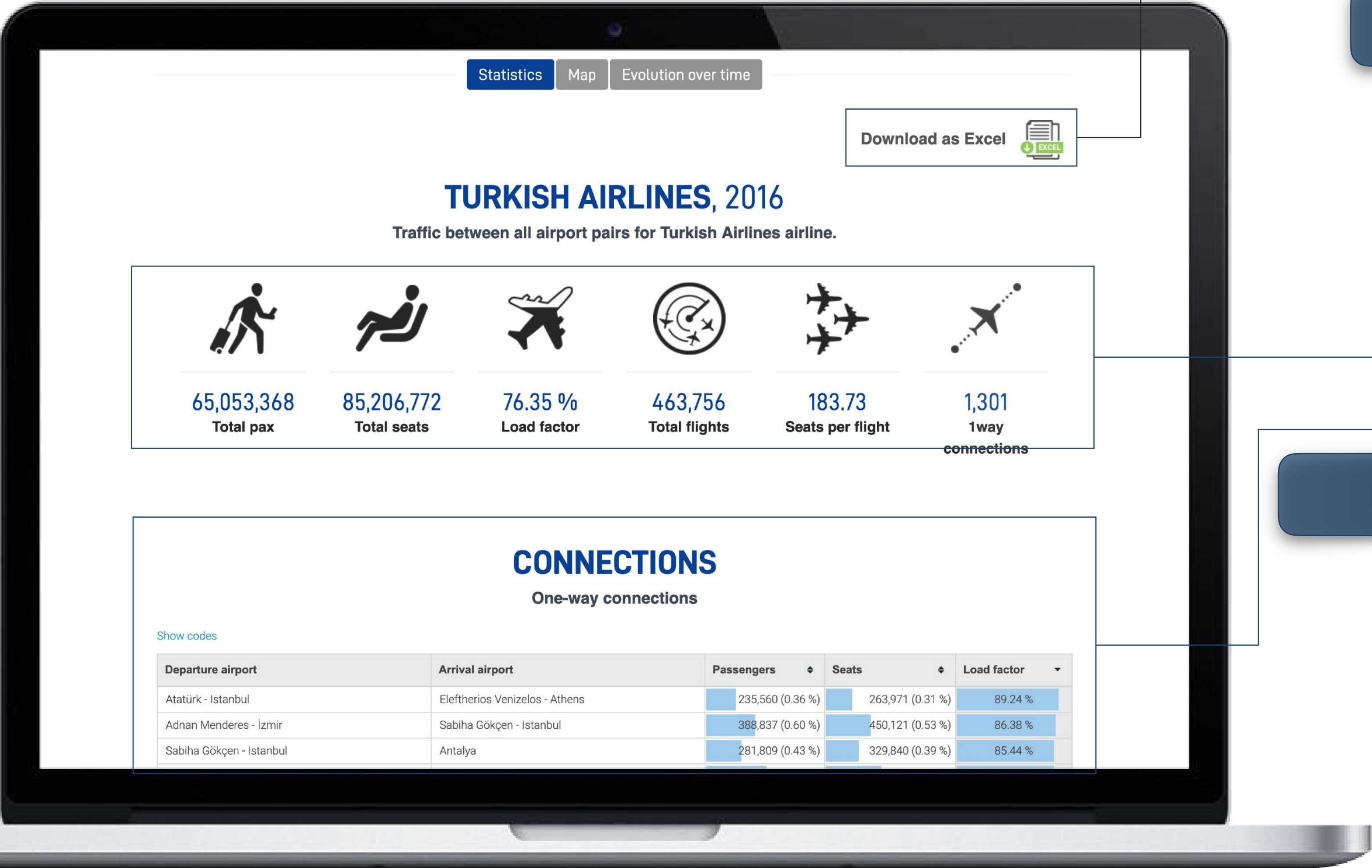
"XLSX" FORMAT REPORT OUTPUT

SUMMARY BOX WITH KEY KPI's

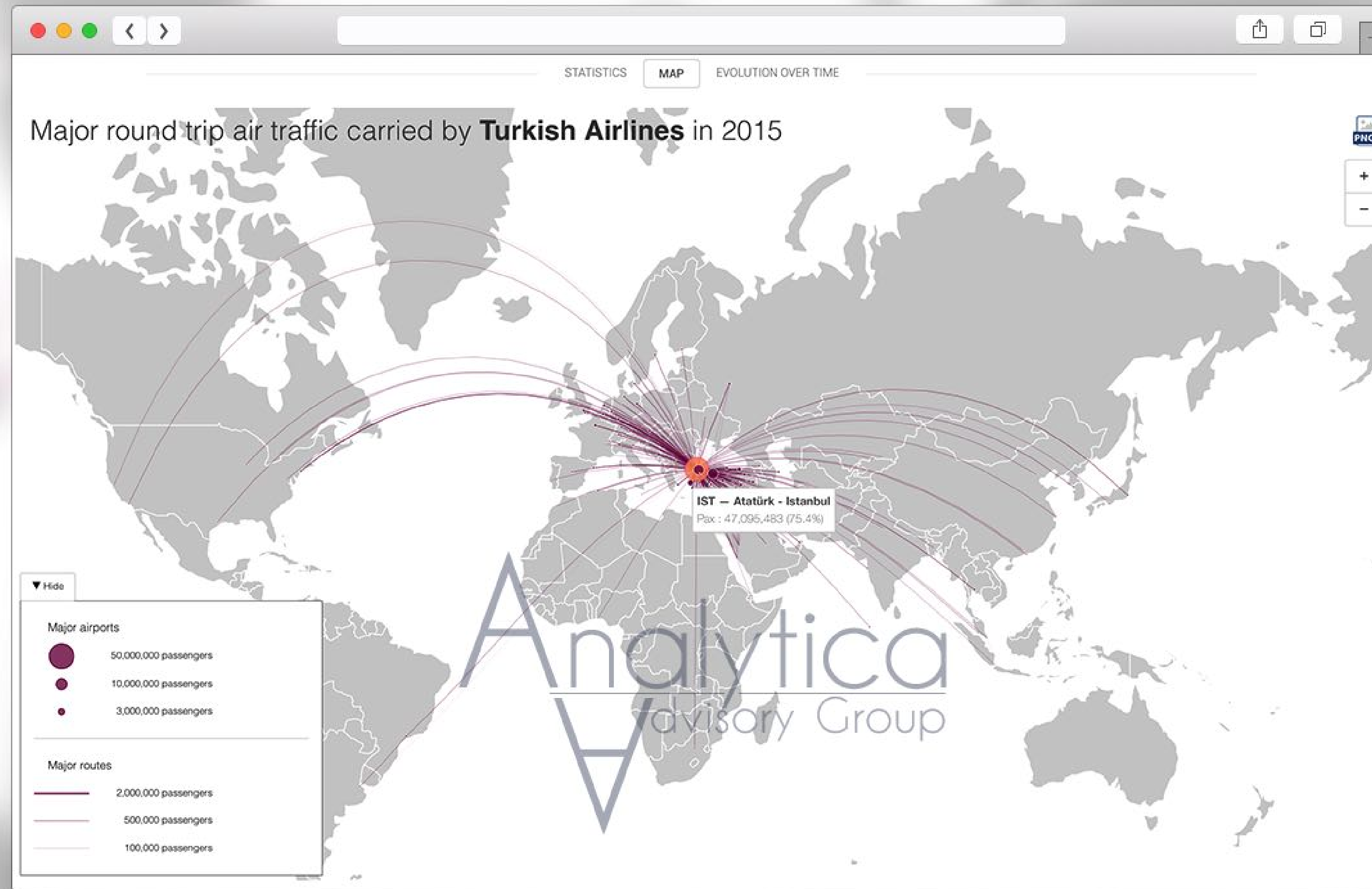
- Total Pax
- Total Seats
- Load Factor
- Total Flights
- Seats per Flight
- Number of 1 Way Connections

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.



LEVERAGE THE POWER OF YOUR PRESENTATIONS & ANALYSIS





AIRLINE ANALYSIS MODULE

II. "MAPS" Sub-Module

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 : 47,095,483 (75.4%)



AIRLINE ANALYSIS MODULE

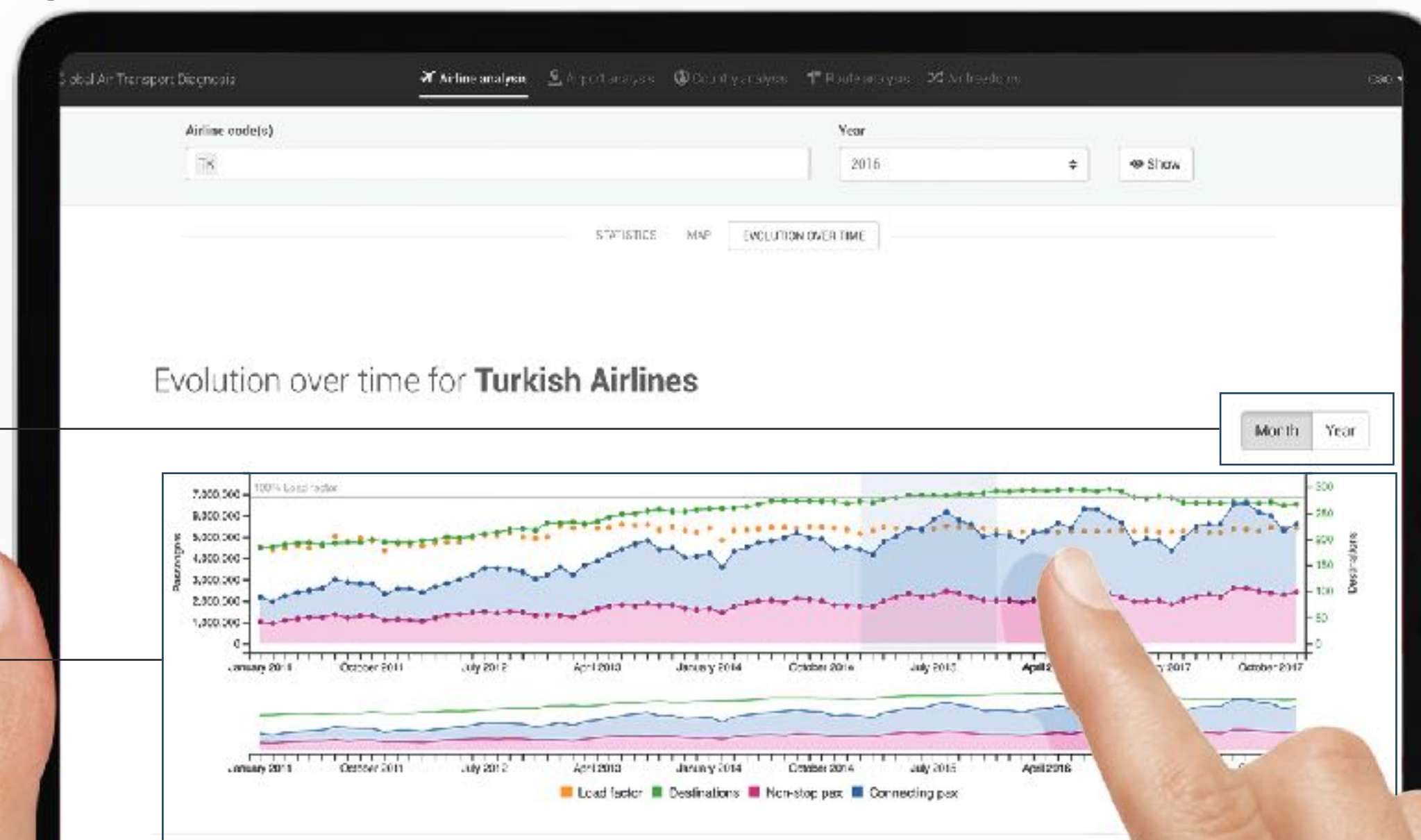
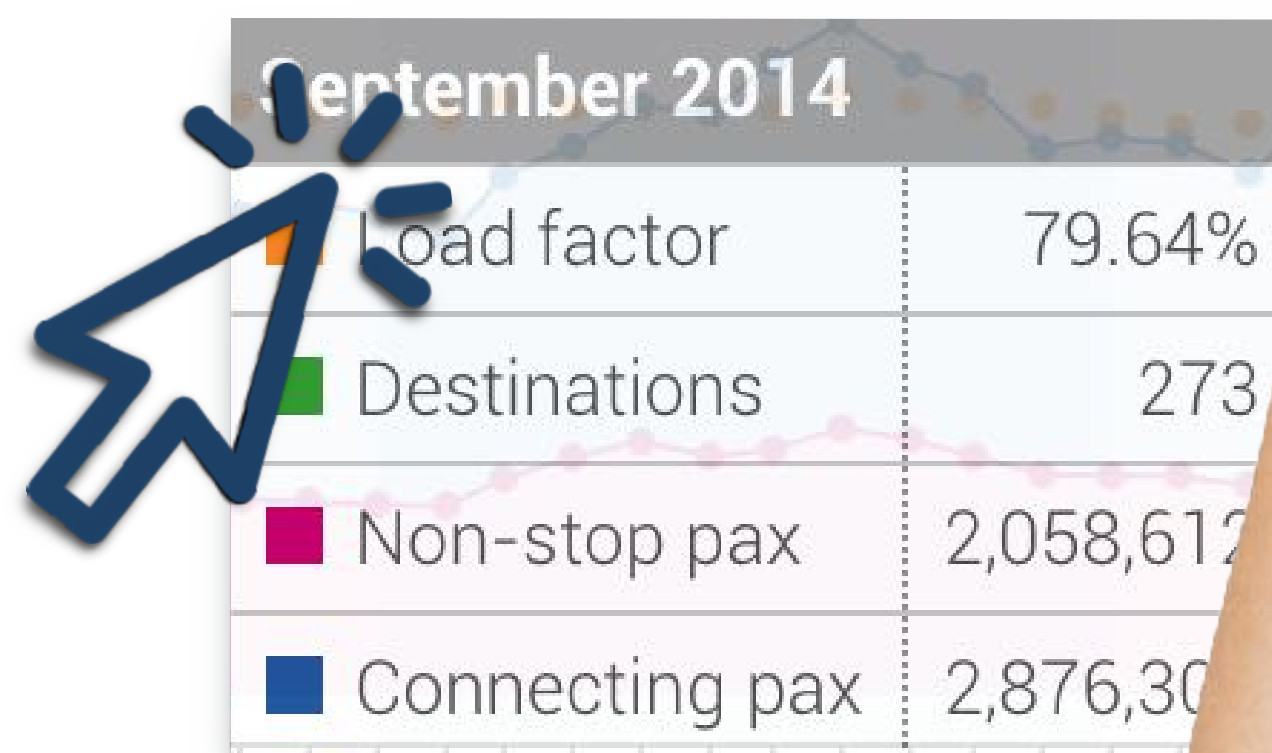
III. "EVOLUTION OVER TIME" Sub-Module

MONTHLY & ANNUAL BREAKDOWNS

- Monitor the trends over time for any airlines including legacy carriers and lcc'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.



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AIRPORT ANALYSIS MODULE



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AIRPORT ANALYSIS MODULE

Airport traffic and connectivity statistics.

ALL THE AIRPORTS YOU LOOK FOR

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.

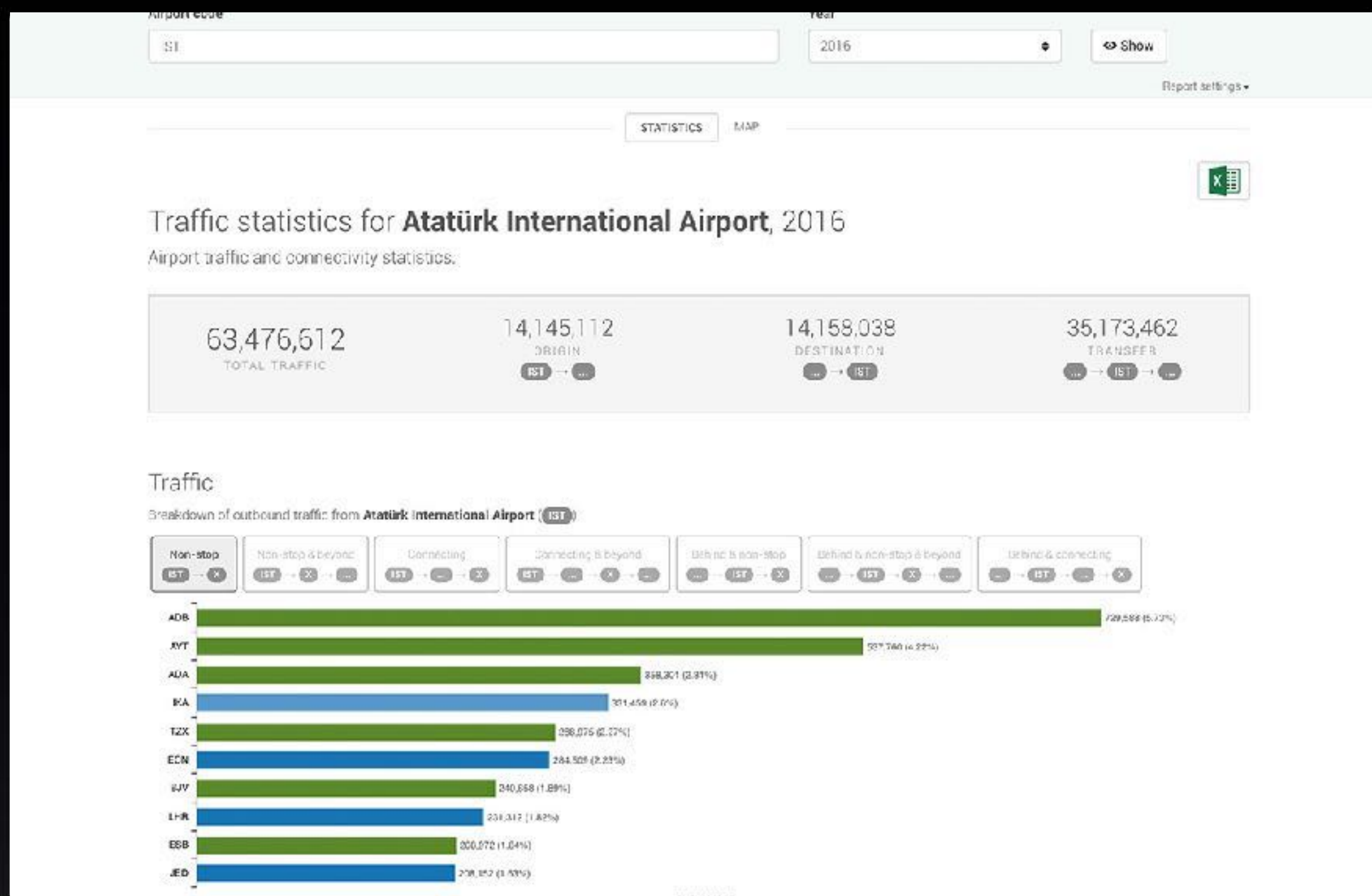
Use the vector map module to get more insights about the traffic flows by all possible breakdowns.

WITH ALL BREAKDOWNS OF TRAFFIC

Use two sub-modules ("Statistics" & "Maps") to get more insights on traffic flows

1. STATISTICS MODULE

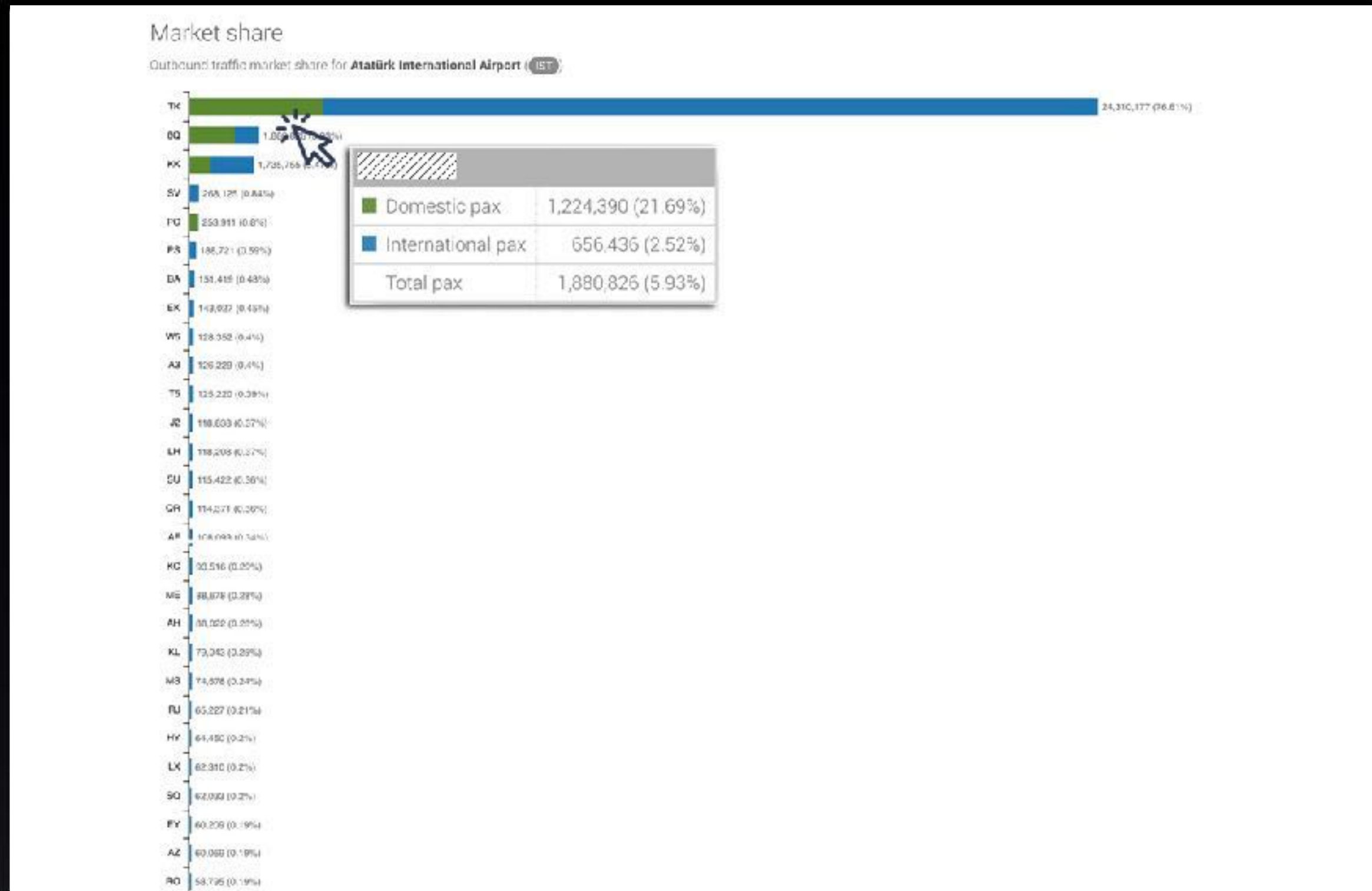
1- STATISTICS MODULE





AIRPORT ANALYSIS MODULE

Airport traffic and connectivity statistics.



2- MARKET SHARES FOR AIRPORTS BY AIRLINES

ALL THE AIRPORTS YOU LOOK FOR

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.

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

WITH ALL BREAKDOWNS OF TRAFFIC

Use two sub-modules ("Statistics" & "Maps") to get more insights on traffic flows

1. STATISTICS MODULE

2. MARKET SHARES FOR AIRPORTS BY AIRLINES



AIRPORT ANALYSIS MODULE

Airport traffic and connectivity statistics.

Transfer traffic

Breakdown of traffic where **Atatürk International Airport (IST)** is the transfer airport

Show names

Transfer	Passengers	SCT (MCT≥30)
DIY → IST → ADB	87,500 (0.25 %)	30
AYT → IST → ADB	81,898 (0.23 %)	30
ADB → IST → GZT	81,734 (0.23 %)	30
GZT → IST → ADB	80,928 (0.23 %)	30
ADB → IST → DIY	71,878 (0.20 %)	30
ADB → IST → AYT	60,800 (0.17 %)	30
ADB → IST → MLX	50,762 (0.14 %)	30
ADB → IST → ADA	49,366 (0.14 %)	30
AYT → IST → DIY	47,852 (0.14 %)	30
ADA → IST → ADB	47,126 (0.13 %)	30
ADB → IST → TZX	42,218 (0.12 %)	30
AYT → IST → AMS	41,934 (0.12 %)	30
ERZ → IST → ADB	40,342 (0.11 %)	30
VAN → IST → ADB	38,590 (0.11 %)	30
JFK → IST → TLV	37,978 (0.11 %)	30
DIY → IST → AYT	37,766 (0.11 %)	30
LHR → IST → ESB	37,682 (0.11 %)	30
TLV → IST → JFK	36,992 (0.10 %)	35
ESB → IST → LHR	36,980 (0.10 %)	30
ADB → IST → ERZ	36,470 (0.10 %)	30

Show more

3- TRANSFER TRAFFIC

ALL THE AIRPORTS YOU LOOK FOR

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.

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

WITH ALL BREAKDOWNS OF TRAFFIC

Use two sub-modules ("Statistics" & "Maps") to get more insights on traffic flows

- 1.STATISTICS MODULE
- 2.MARKET SHARES FOR AIRPORTS BY AIRLINES
- 3.TRANSFER TRAFFIC



AIRPORT ANALYSIS MODULE

Airport traffic and connectivity statistics.



4- INSIGHTFUL VECTOR MAP VIEW

ALL THE AIRPORTS YOU LOOK FOR

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.

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

WITH ALL BREAKDOWNS OF TRAFFIC

Use two sub-modules ("Statistics" & "Maps") to get more insights on traffic flows

1. STATISTICS MODULE
2. MARKET SHARES FOR AIRPORTS BY AIRLINES
3. TRANSFER TRAFFIC
4. INSIGHTFUL VECTOR MAP VIEW



AIRPORT ANALYSIS MODULE

I. "STATISTICS" Sub-Module | Closer Look

"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



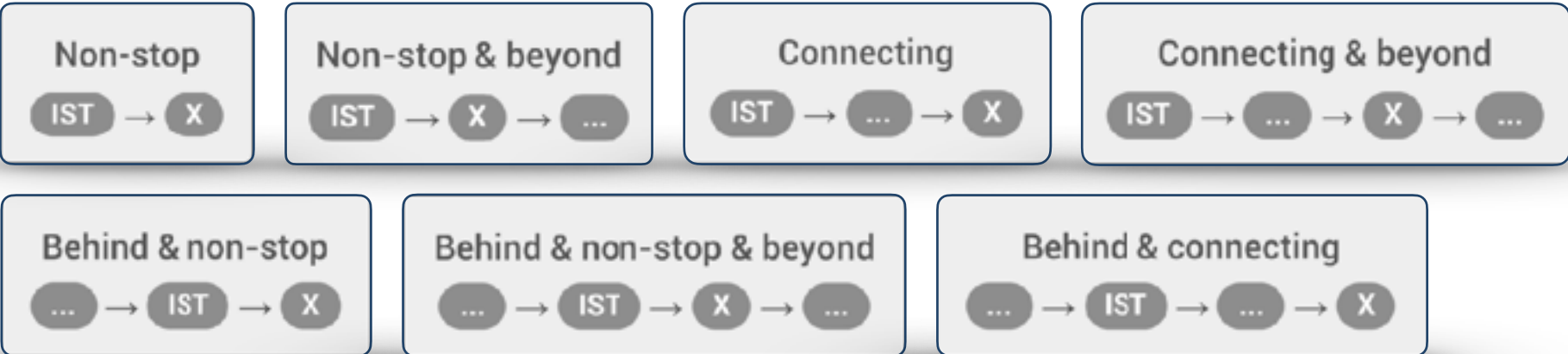


AIRPORT ANALYSIS MODULE

I.A. "STATISTICS" Traffic Table

A. TRAFFIC CHART

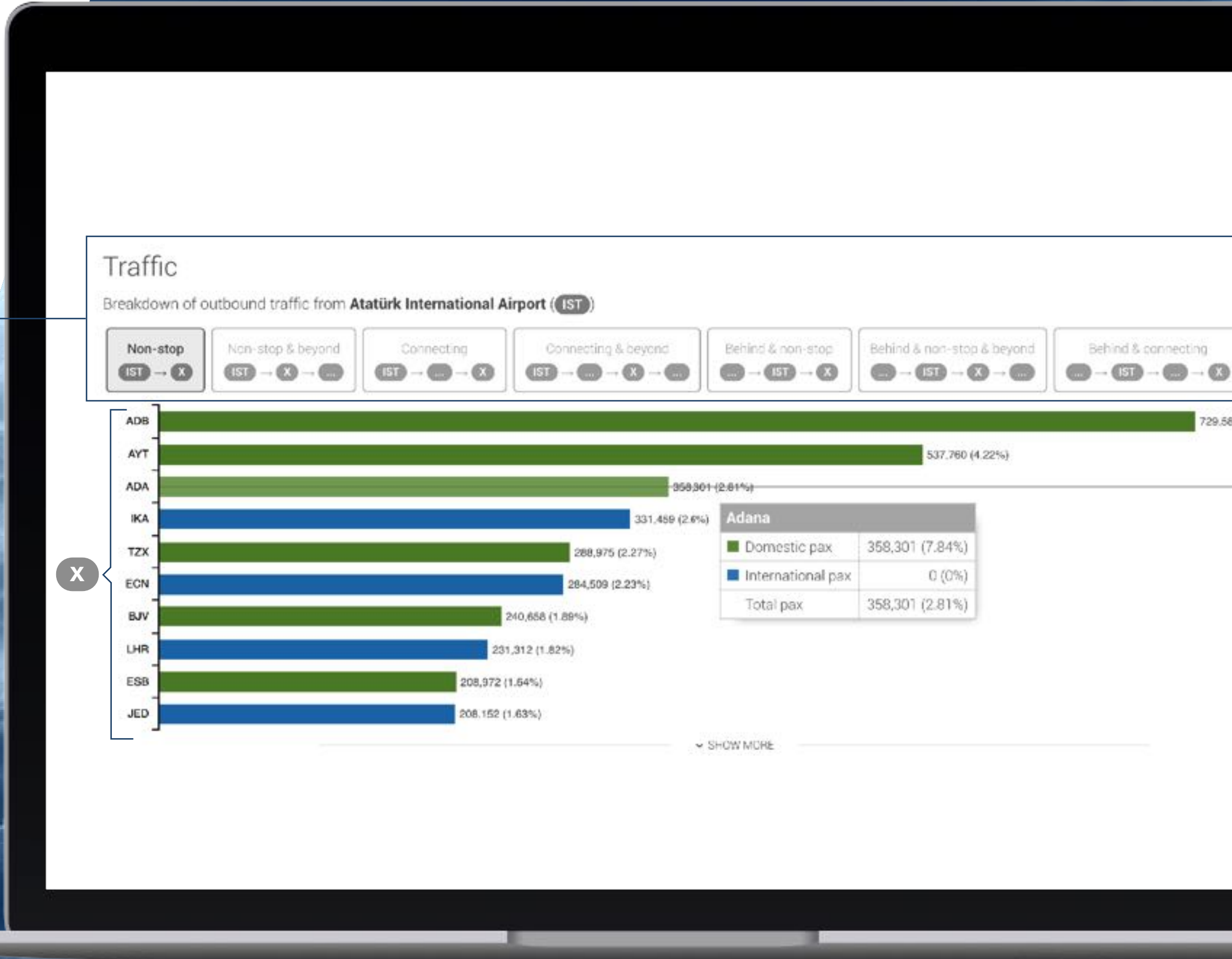
MONITOR THE BREAKDOWN OF OUTBOUND TRAFFIC FROM ANY AIRPORT IN ALL SEGMENTS



- 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

Antalya	
Domestic pax	537,760 (11.76%)
International pax	0 (0%)
Total pax	537,760 (4.22%)

Adana	
Domestic pax	358,301 (7.84%)
International pax	0 (0%)
Total pax	358,301 (2.81%)
Antalya	
Domestic pax	537,760 50.09%▲
International pax	0 0%▲
Total pax	537,760 50.09%▲
Imam Khomeini - Tehran	
Domestic pax	0 -inf%▼
International pax	331,459 inf%▲
Total pax	331,459 -7.49%▼



B. MARKET SHARE



AIRPORT ANALYSIS MODULE
I.B. "STATISTICS" Market Share Table

MONITOR & COMPARE MARKET SHARES BY AIRLINES FOR THE OUTBOUND TRAFFIC FROM ANY AIRPORT SELECTED

- 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

Turkish Airlines	
Domestic pax	3,577,727 (63.38%)
International pax	20,732,450 (79.47%)
Total pax	24,310,177 (76.61%)

Onur Air	
Domestic pax	1,224,390 (21.69%)
International pax	656,436 (2.52%)
Total pax	1,880,826 (5.93%)
Turkish Airlines	
Domestic pax: 3,577,727 192.2%▲	
International pax: 20,732,450 3058.34%▲	
Total pax: 24,310,177 1192.53%▲	
AtlasGlobal	
Domestic pax: 598,760 -51.1%▼	
International pax: 1,136,995 73.21%▲	
Total pax: 1,735,755 -7.71%▼	



AIRPORT ANALYSIS MODULE

I.C. "STATISTICS" Transfer Traffic Table

C. TRANSFER TRAFFIC

MONITOR THE BREAKDOWN OF TRAFFIC WHERE THE SELECTED AIRPORT IS THE TRANSFER AIRPORT

- 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

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.

Report settings

Minimum connecting time: 30

?

X

Transfer traffic

Breakdown of traffic where **Atatürk International Airport (IST)** is the transfer airport

Show names

Transfer	Passengers	SCT (MCT≥30)
DIY → IST → ADB	87,530 (0.25 %)	30
AYT → IST → ADB	81,898 (0.23 %)	30
ADB → IST → GZT	81,734 (0.23 %)	30
GZT → IST → ADB	80,928 (0.23 %)	30
ADB → IST → DIY	71,878 (0.20 %)	30
ADB → IST → AYT	60,800 (0.17 %)	30
ADB → IST → MLX	50,782 (0.14 %)	30
ADB → IST → ADA	49,366 (0.14 %)	30
AYT → IST → DIY	47,852 (0.14 %)	30
ADA → IST → ADB	47,126 (0.13 %)	30
ADB → IST → TZX	42,218 (0.12 %)	30
AYT → IST → AMS	41,934 (0.12 %)	30
ERZ → IST → ADB	40,342 (0.11 %)	30
VAN → IST → ADB	38,590 (0.11 %)	30
JFK → IST → TLV	37,978 (0.11 %)	30
DIY → IST → AYT	37,766 (0.11 %)	30
LHR → IST → ESS	37,682 (0.11 %)	30
TLV → IST → JFK	35,992 (0.10 %)	35
ESS → IST → LHR	35,980 (0.10 %)	30
ADB → IST → ERZ	35,470 (0.10 %)	30

Show more



AIRPORT ANALYSIS MODULE

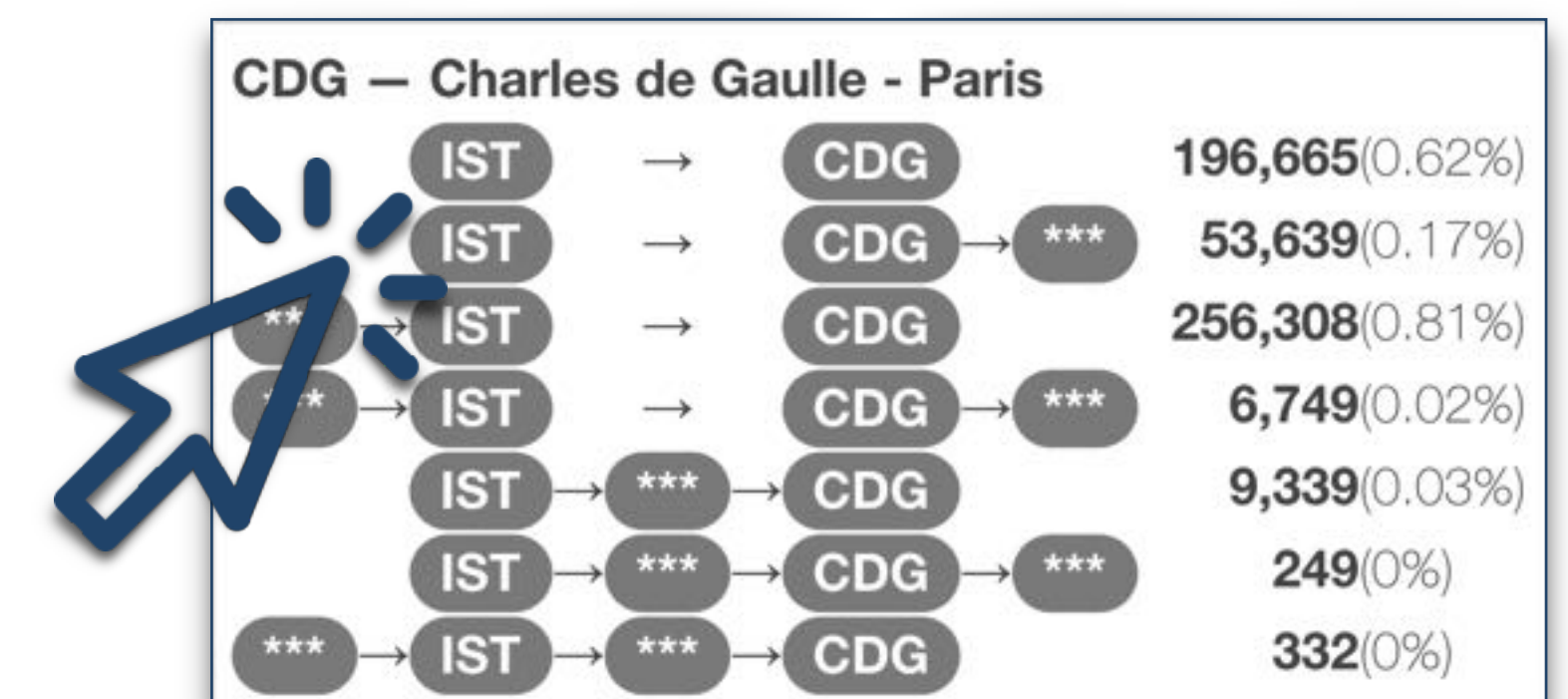
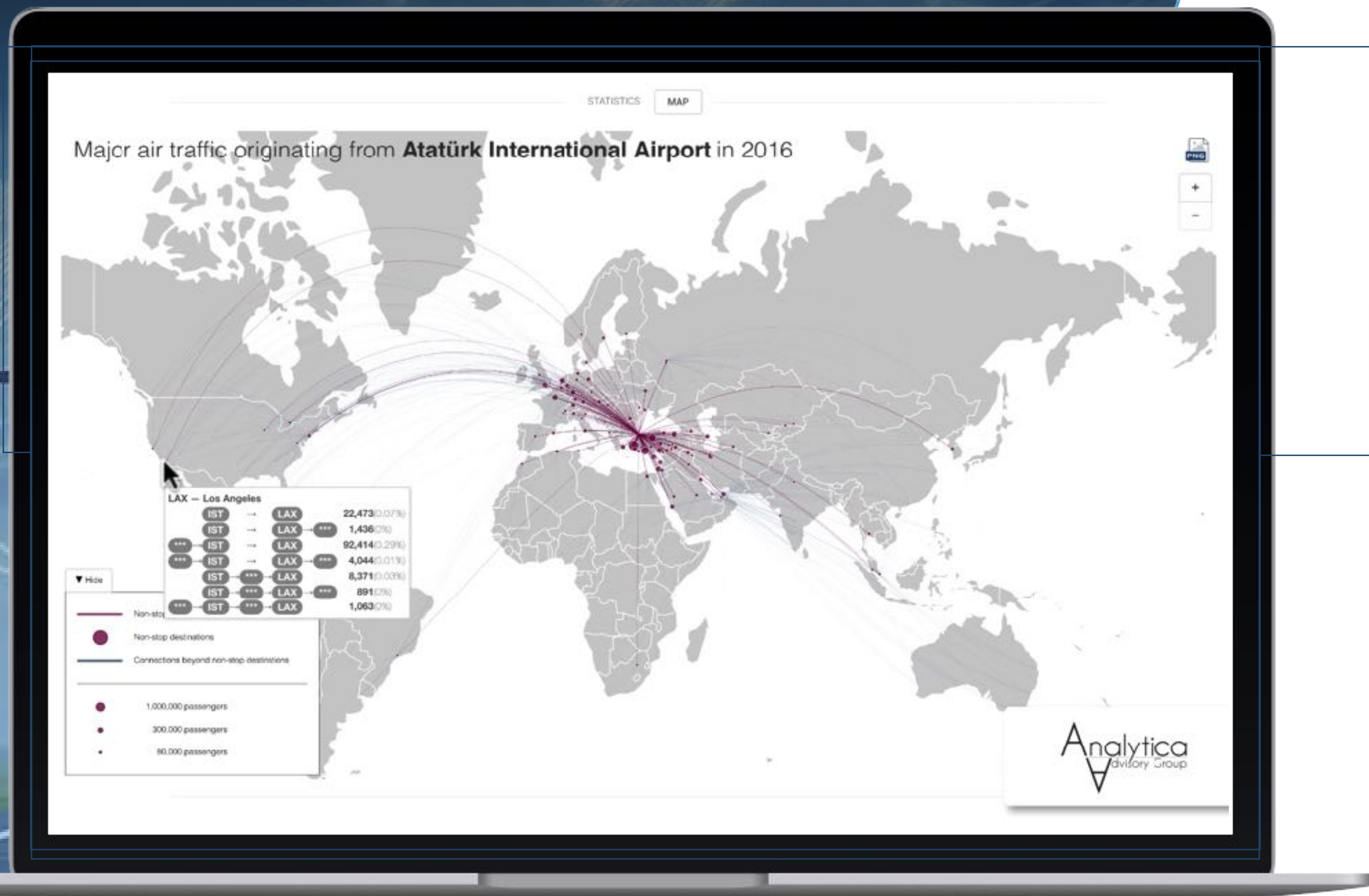
II. "MAP" Sub-Module

VECTOR MAPS ILLUSTRATING ROUTES

- 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

LEGENDS ,TOOLTIPS AND ILLUSTRATED ROUTES WITH ALL BREAKDOWNS OF TRAFFIC

- Hover your mouse to trigger insightful tooltips for rather analysis



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COUNTRY ANALYSIS MODULE



INDEX



COUNTRY ANALYSIS MODULE | O&D ONE WAY TRAFFIC FROM A GIVEN COUNTRY TO THE REST OF THE WORLD.

Monitor & Analyze any Country with 8 Dynamic Charts and Vector Map View

8 DYNAMIC CHARTS & MAP

Summary Table (Outbound one way traffic)

Origin Traffic Charts (Origin airports & Last domestic airports)

Destination Traffic Charts (Country destinations & Airport destinations)

Market Share Chart (Market share for originated traffic)

Transfers Chart (Transfer airports on outbound routes)

Routes Chart (Outbound routes)

Vector Map with Routes



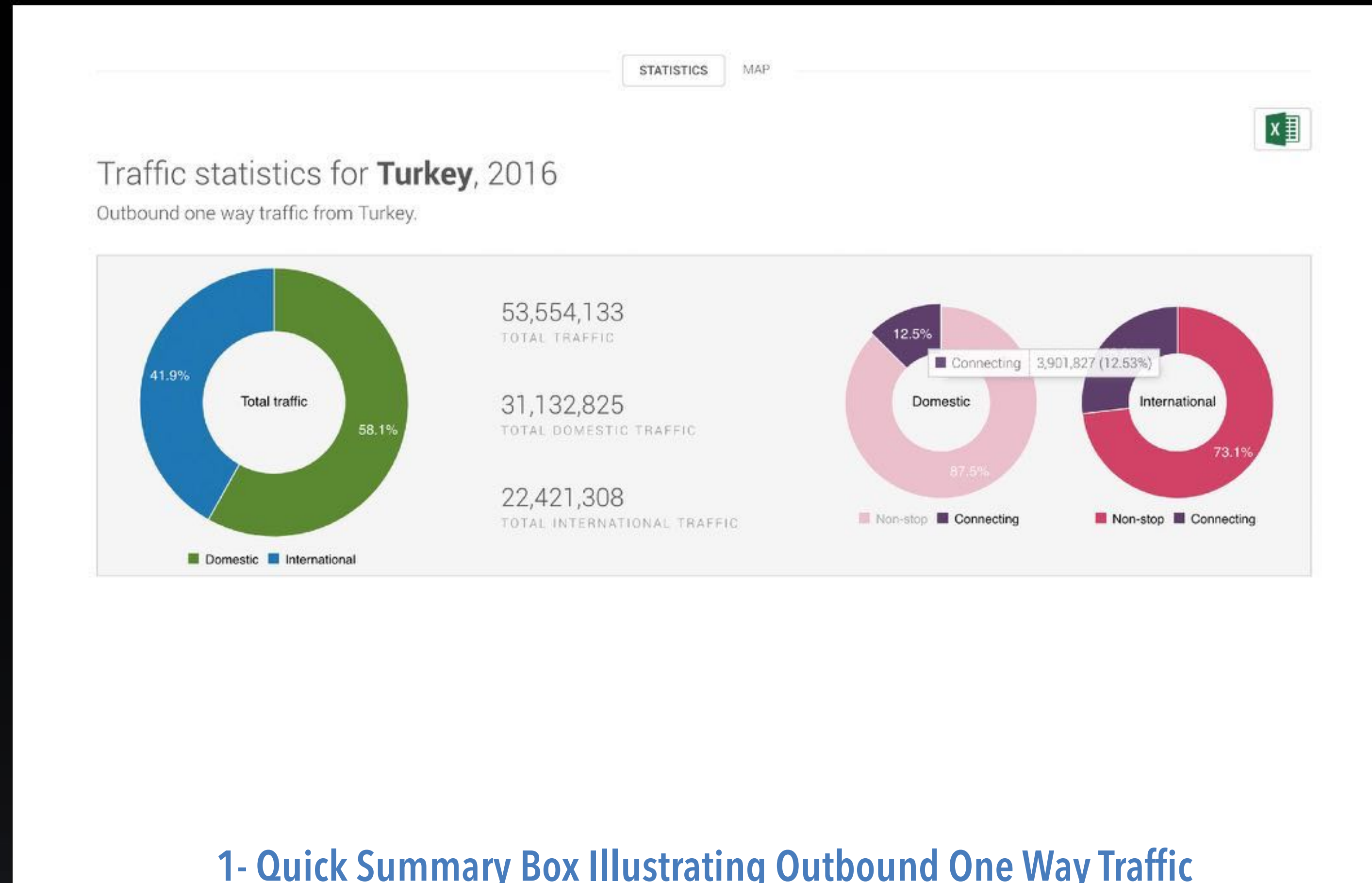


COUNTRY ANALYSIS MODULE | O&D ONE WAY TRAFFIC FROM A GIVEN COUNTRY TO THE REST OF THE WORLD.

Monitor & Analyze any Country with 8 Dynamic Charts and Vector Map View

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DYNAMIC CHARTS
& MAP VIEW





COUNTRY ANALYSIS MODULE | O&D ONE WAY TRAFFIC FROM A GIVEN COUNTRY TO THE REST OF THE WORLD.

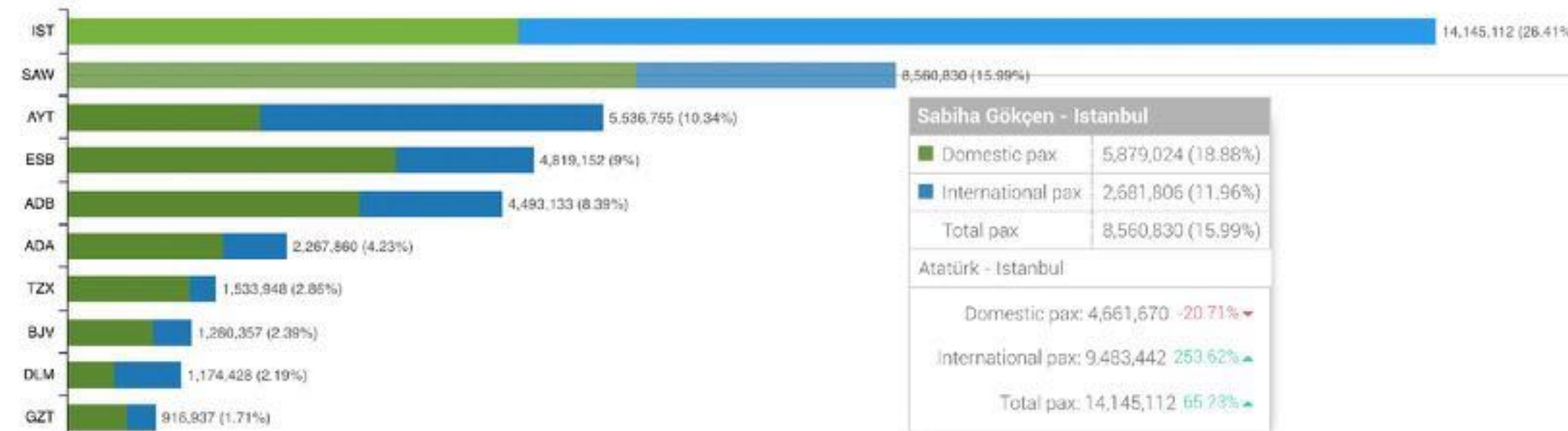
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DYNAMIC CHARTS
& MAP VIEW

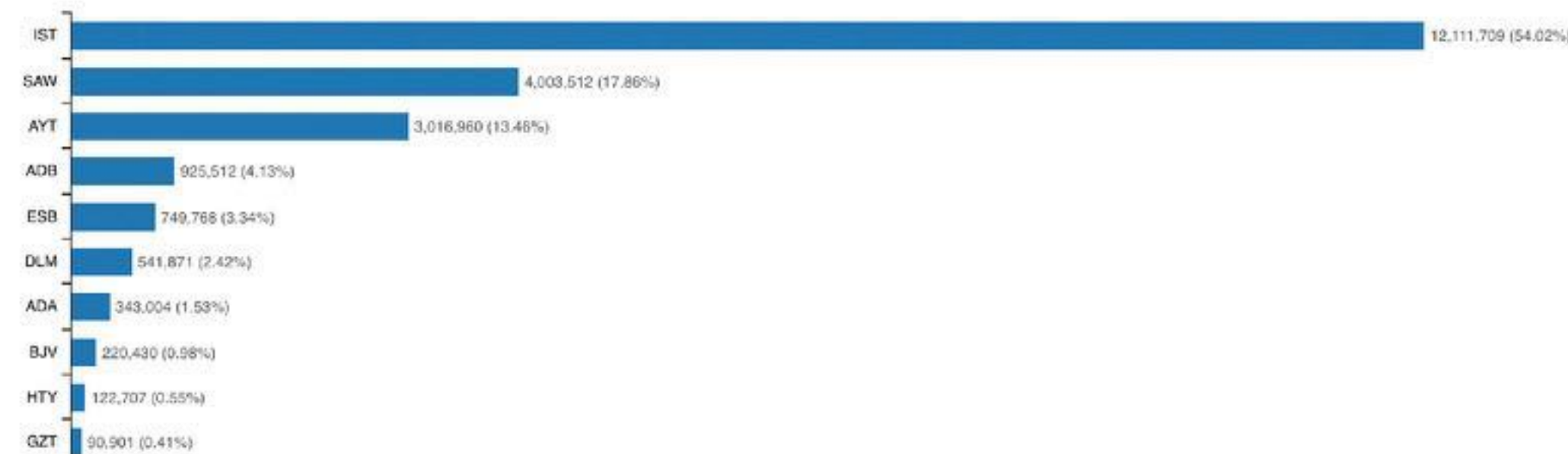
Origin traffic

Origin airports for the traffic from **Turkey (TR)**.



Sabiha Gökçen - Istanbul	
Domestic pax	5,879,024 (18.88%)
International pax	2,681,806 (11.96%)
Total pax	8,560,830 (15.99%)
Atatürk - Istanbul	
Domestic pax	4,661,670 -20.71%
International pax	9,483,442 253.62%
Total pax	14,145,112 65.23%

Last domestic airports for international traffic from **Turkey (TR)**.



2,3- Origin airports for the traffic from any selected airport and Last domestic airports for international traffic



COUNTRY ANALYSIS MODULE | O&D ONE WAY TRAFFIC FROM A GIVEN COUNTRY TO THE REST OF THE WORLD.

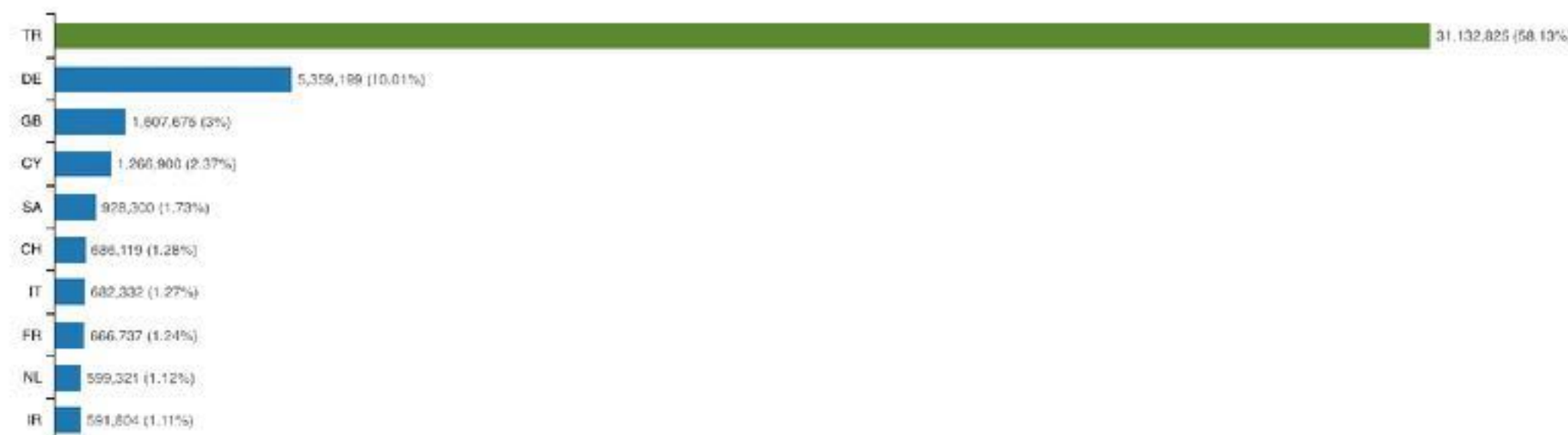
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DYNAMIC CHARTS
& MAP VIEW

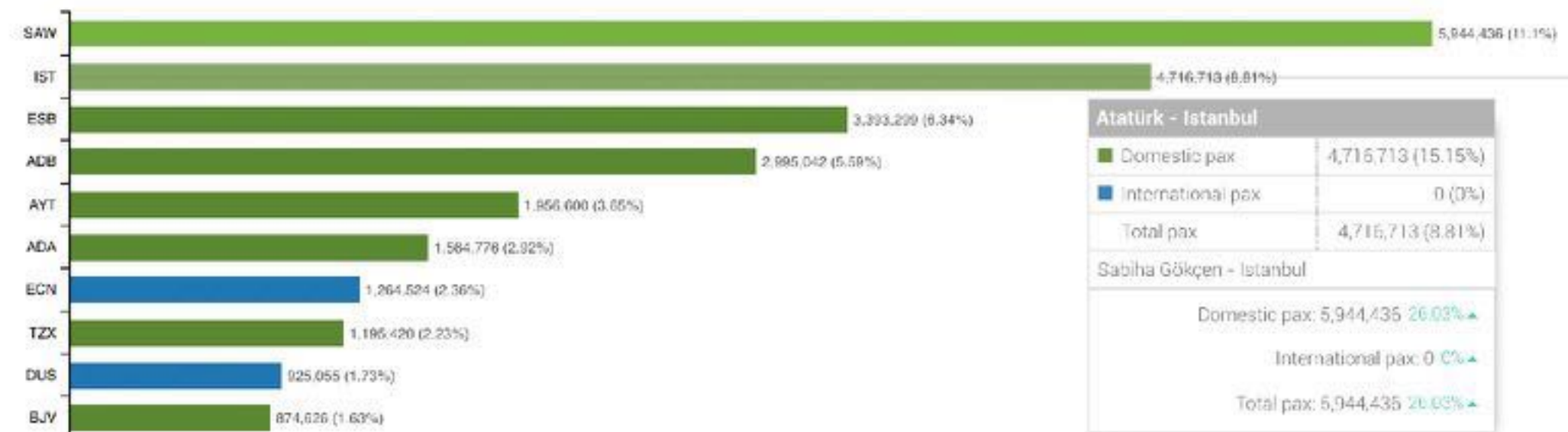
Destination traffic

Country destinations for traffic that originated from **Turkey (TR)**



SHOW MORE

Airport destinations for traffic that originated from **Turkey (TR)**



SHOW MORE

Atatürk - Istanbul	
Domestic pax	4,716,713 (15.15%)
International pax	0 (0%)
Total pax	4,716,713 (8.81%)
Sabiha Gökçen - Istanbul	
Domestic pax	5,944,436 26.03%▲
International pax	0 0%▲
Total pax	5,944,436 26.03%▲

4,5 - Country destinations & Airport destinations for traffic that originated



COUNTRY ANALYSIS MODULE | O&D ONE WAY TRAFFIC FROM A GIVEN COUNTRY TO THE REST OF THE WORLD.

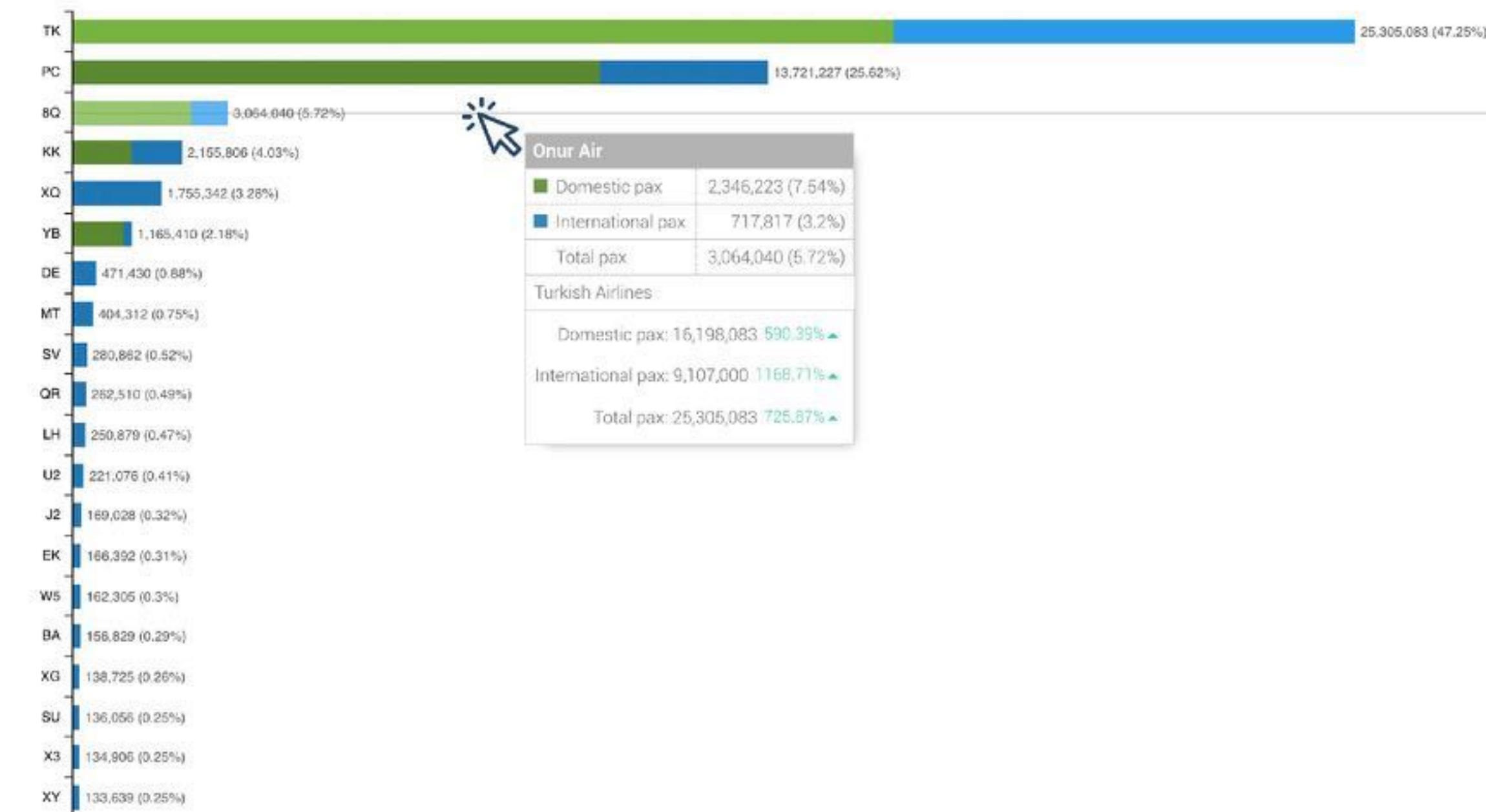
Monitor & Analyze any Country with 8 Dynamic Charts and Vector Map View

8

DYNAMIC CHARTS
& MAP VIEW

Market share

Market share for traffic that originated from **Turkey (TR)**.



Onur Air	
Domestic pax	2,346,223 (7.54%)
International pax	717,817 (3.2%)
Total pax	3,064,040 (5.72%)
Turkish Airlines	
Domestic pax	16,198,083 590.35%▲
International pax	9,107,000 1168.71%▲
Total pax	25,305,083 726.87%▲

6- Market share for traffic that originated from any selected airport



COUNTRY ANALYSIS MODULE | O&D ONE WAY TRAFFIC FROM A GIVEN COUNTRY TO THE REST OF THE WORLD.

Monitor & Analyze any Country with 8 Dynamic Charts and Vector Map View

8

DYNAMIC CHARTS
& MAP VIEW

Transfers

Transfer airports on outbound routes from Turkey (TR).



Sabiha Gökçen - Istanbul	
Domestic pax	1,784,657 (5.73%)
International pax	1,355,138 (6.04%)
Total pax	3,139,795 (31.63%)
Atatürk - Istanbul	
Domestic pax	976,709 -45.27%
International pax	2,548,421 88.06%
Total pax	3,525,130 12.27%

7- Transfer airports on outbound routes from any selected airport



COUNTRY ANALYSIS MODULE | O&D ONE WAY TRAFFIC FROM A GIVEN COUNTRY TO THE REST OF THE WORLD.

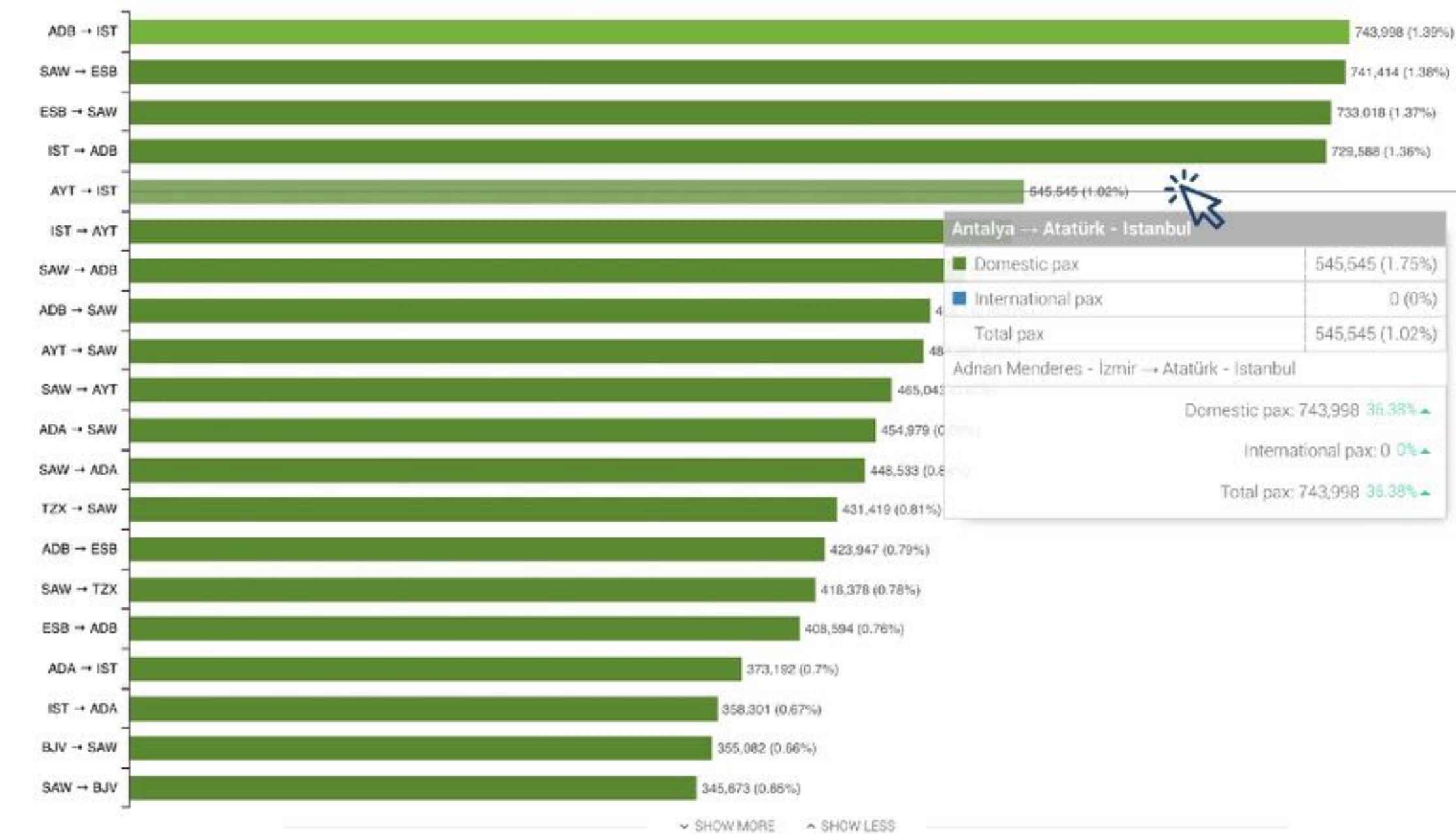
Monitor & Analyze any Country with 8 Dynamic Charts and Vector Map View

8

DYNAMIC CHARTS
& MAP VIEW

Routes

Outbound routes from **Turkey (TR)**.



8- Outbound routes as airport pairs

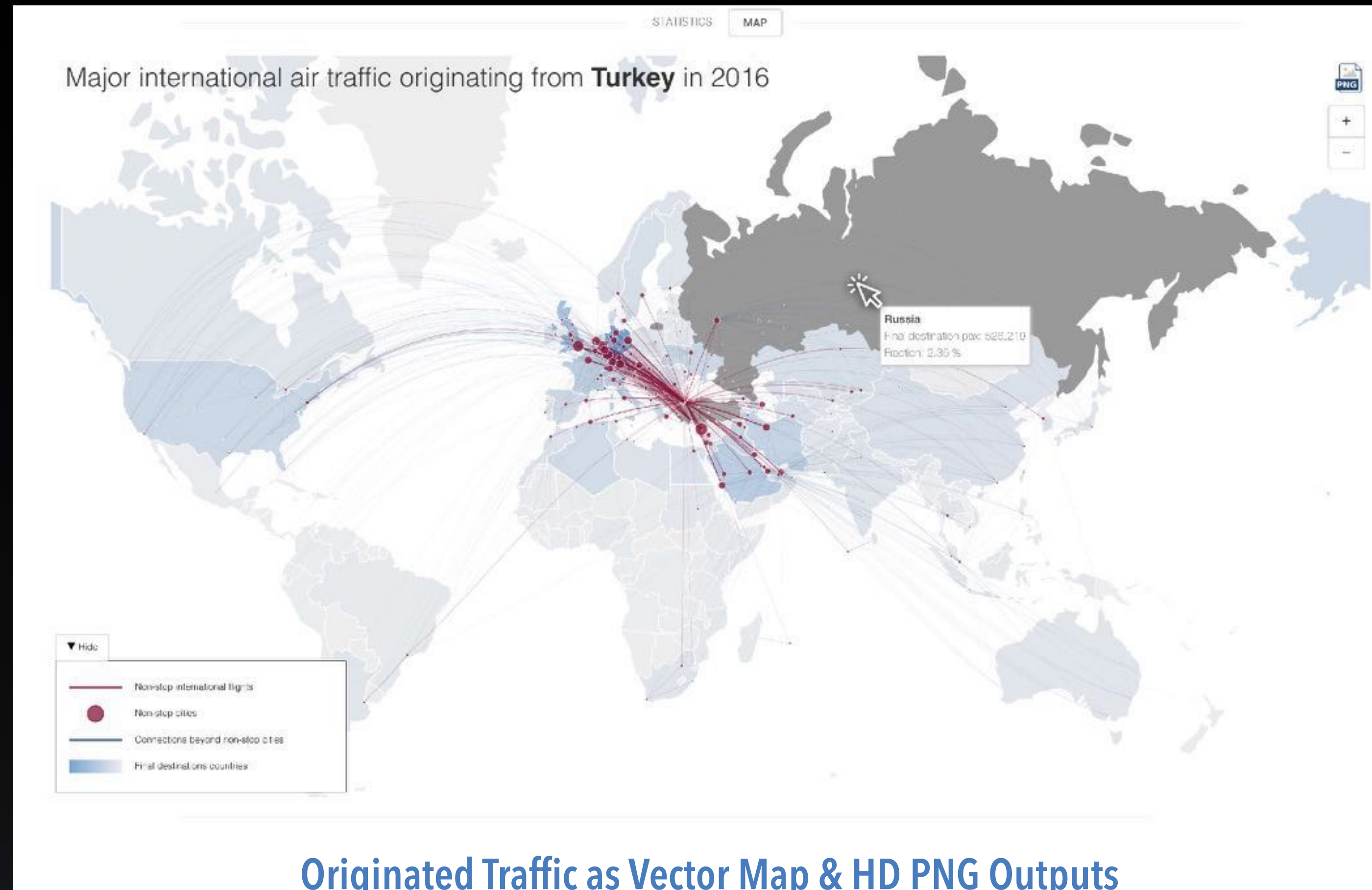


COUNTRY ANALYSIS MODULE | O&D ONE WAY TRAFFIC FROM A GIVEN COUNTRY TO THE REST OF THE WORLD.

Monitor & Analyze any Country with 8 Dynamic Charts and Vector Map View

8

DYNAMIC CHARTS
& MAP VIEW



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ROUTE ANALYSIS MODULE



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ROUTE ANALYSIS MODULE

Monitor & Analyze one way traffic between any two airports

3 INTERACTIVE DYNAMIC CHARTS & VECTOR MAP

Traffic statistics for **Atatürk International Airport → London Heathrow Airport**, 2016
Traffic passing through **Atatürk International Airport (IST)** and then **London Heathrow Airport (LHR)**.



Non-stop traffic

Non-stop traffic from **Atatürk International Airport (IST)** to **London Heathrow Airport (LHR)**.

Airline code	Airline name	Offered flights	Passengers	Seats	Load factor	Seats per flight
TK	Turkish Airlines	1,963 (65.24 %)	410,362 (73.07 %)	485,160 (71.12 %)	84.58 %	247.15
BA	British Airways	1,046 (34.76 %)	151,212 (26.93 %)	197,034 (28.88 %)	76.74 %	188.37
KK	AtlasGlobal	0 (0.00 %)	1 (0.00 %)	0 (0.00 %)	-	-
Total		3,009 (100.00 %)	561,575 (100.00 %)	682,194 (100.00 %)	82.32 %	226.72

Summary Table (Outbound one way traffic)

Non-Stop Traffic Chart by Airlines

Connecting Traffic Chart by Airports

Vector Map with Routes



ROUTE ANALYSIS MODULE

Monitor & Analyze one way traffic between any two airports
Summary Table

"XLSX" FORMAT REPORT OUTPUT

TOTAL TRAFFIC

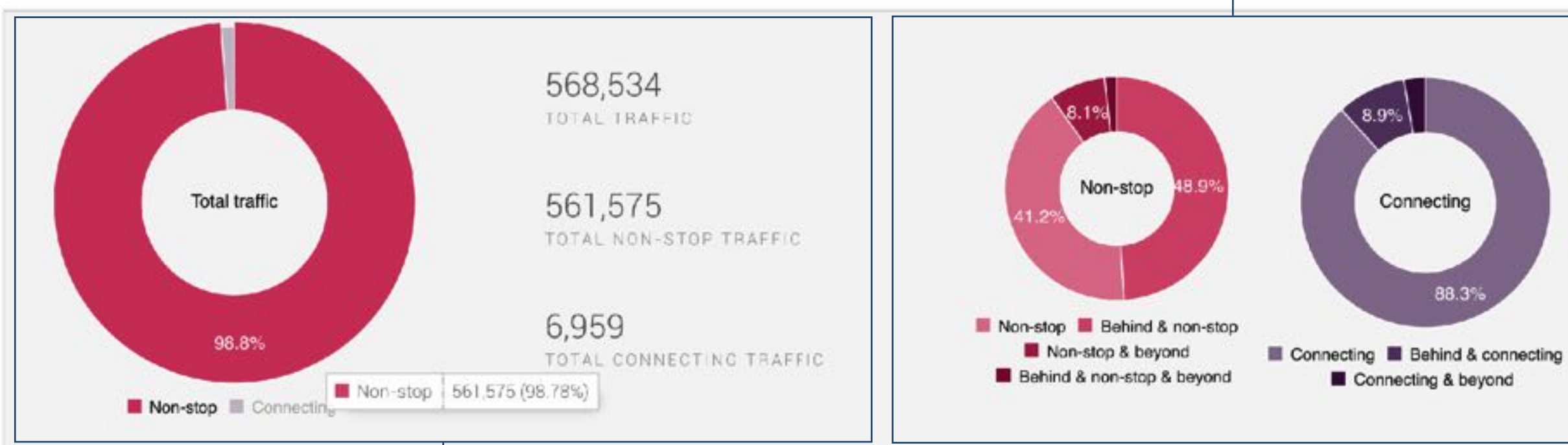
- Total Traffic
- Total Non-Stop Traffic
- Total Connecting Traffic

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

Traffic statistics for **Atatürk International Airport → London Heathrow Airport, 2016**

Traffic passing through **Atatürk International Airport (IST)** and then **London Heathrow Airport (LHR)**.





ROUTE ANALYSIS MODULE

Monitor & Analyze one way traffic between any two airports

Non-Stop & Connecting Traffic Charts

NON-STOP TRAFFIC CHART

- 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 CHART

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

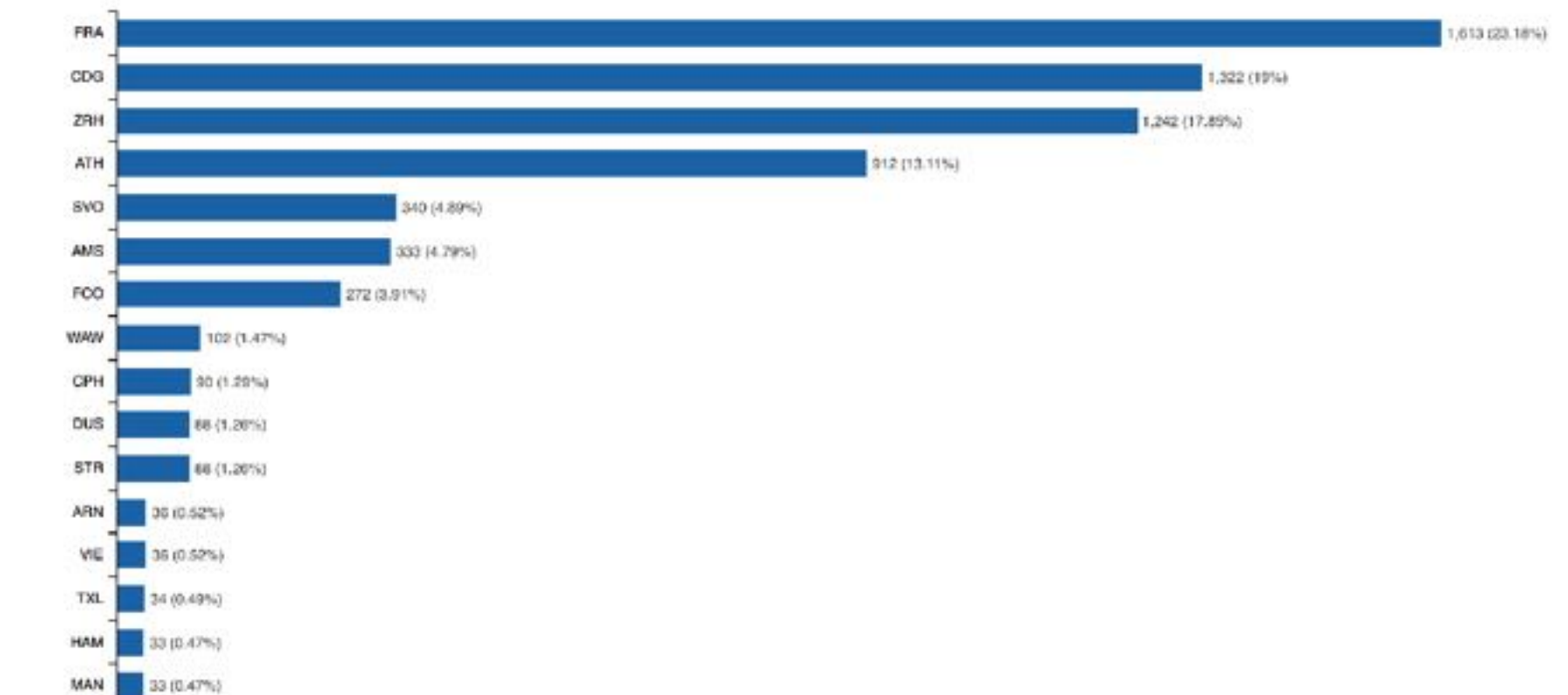
Non-stop traffic

Non-stop traffic from **Atatürk International Airport (IST)** to **London Heathrow Airport (LHR)**.

Airline code	Airline name	Offered flights	Passengers	Seats	Load factor	Seats per flight
TK	Turkish Airlines	1,963 (65.24 %)	410,362 (73.07 %)	485,163 (71.12 %)	84.58 %	247.15
BA	British Airways	1,046 (34.76 %)	151,212 (26.93 %)	197,034 (28.88 %)	76.74 %	168.37
KK	AtlasGlobal	0 (0.00 %)	1 (0.00 %)	0 (0.00 %)	-	-
Total		3,009 (100.00 %)	561,575 (100.00 %)	682,194 (100.00 %)	82.32 %	226.72

Connecting traffic

Connecting traffic from **Atatürk International Airport (IST)** to **London Heathrow Airport (LHR)**.



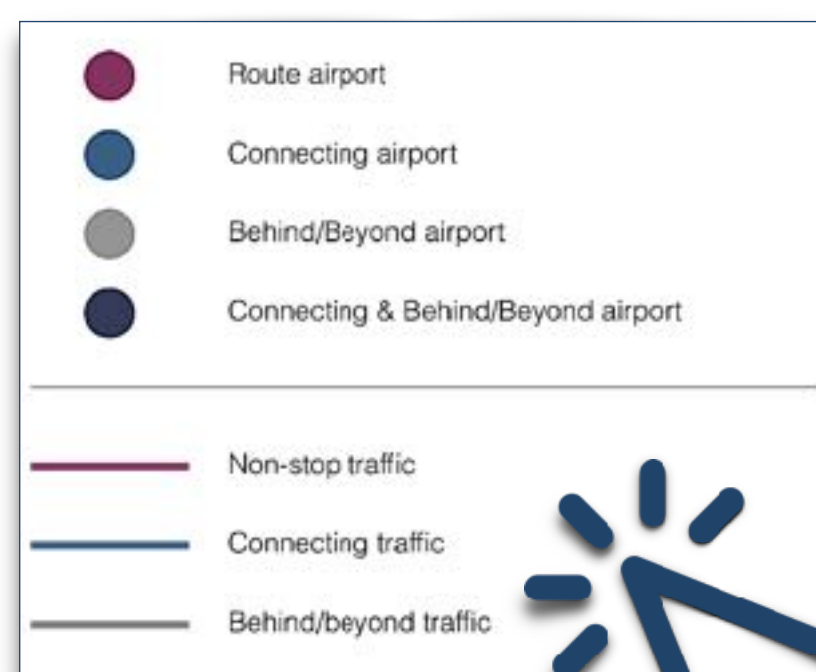


ROUTE ANALYSIS MODULE

Monitor & Analyze one way traffic between any two airports

"MAP" Sub-Module

- 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

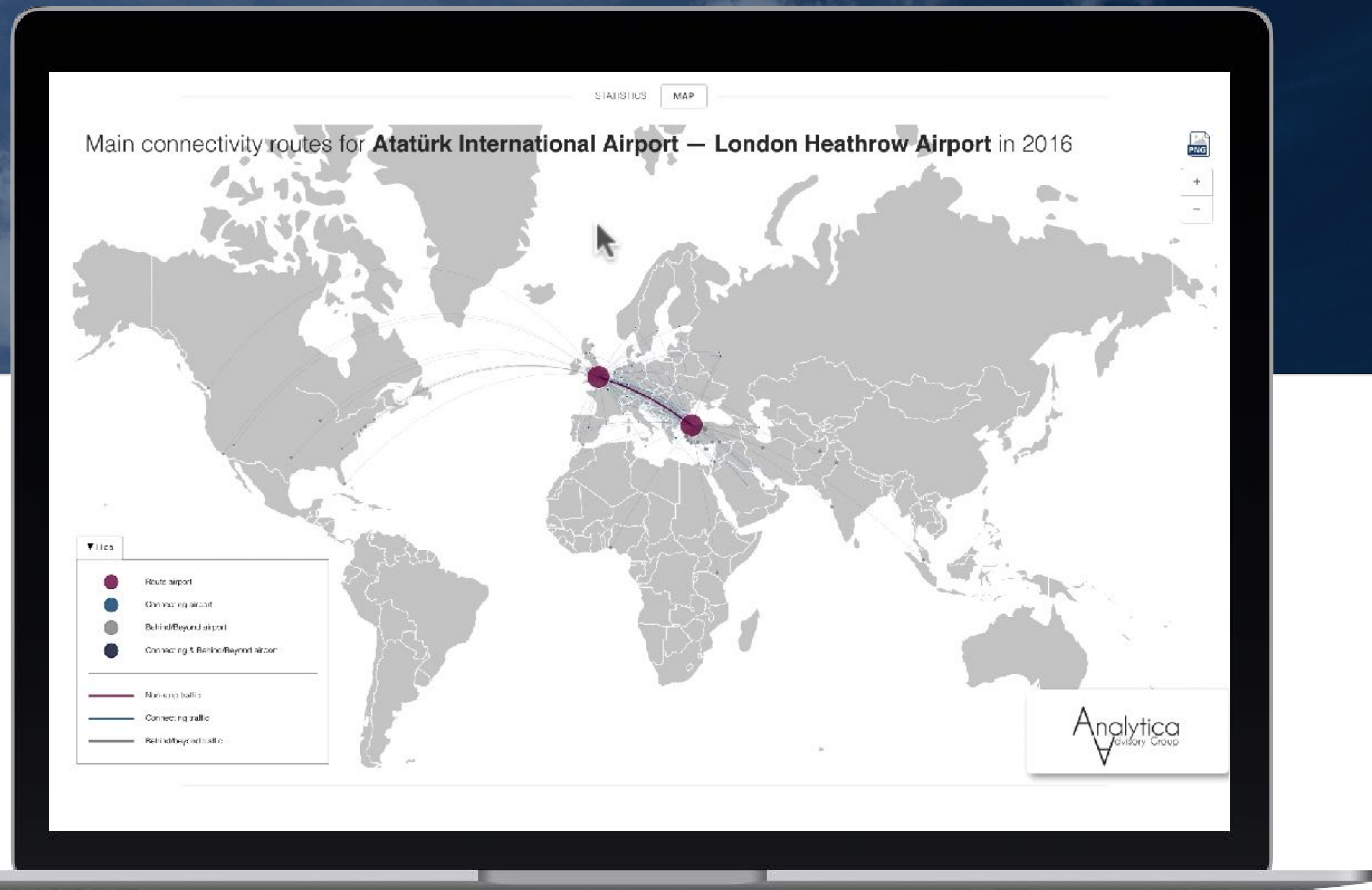


ESB — Esenboğa - Ankara

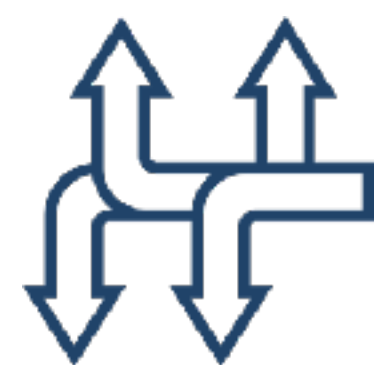
Behind pax: 18,904

Behind pax share*: 3.33%

* in total pax



GATO



AIR FREEDOMS **FOR COUNTRY PAIRS**



INDEX



AIR FREEDOMS FOR COUNTRY PAIRS

Monitor "PAX" and "RPK" by Country Pairs and Air Freedoms

QUERY BY AIRLINES & FREEDOMS

TRAFFIC BY FREEDOMS AND AIRLINE

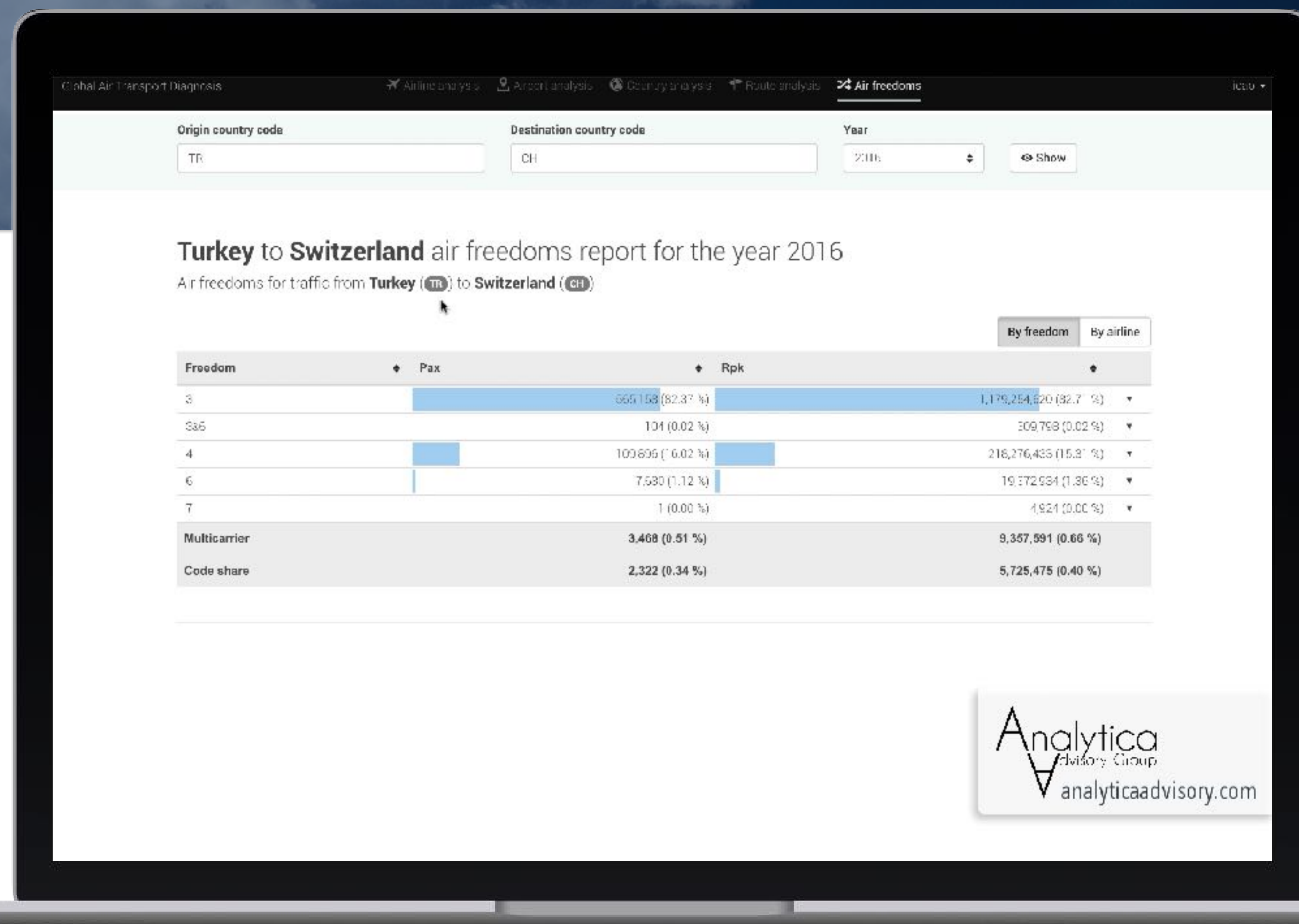
- View the traffic breakdowns between any selected country pair by air freedoms
- Monitor "Pax" and "RPK" volumes by freedoms and airlines
- Use two different dynamic views to query by Freedoms and / or airlines

By freedom

By airline

MONITOR CODESHARE AND MULTICARRIER TRAFFIC

- View the "Pax" and "RPK" shares of Codeshares for any country pair
- View the "Pax" and "RPK" shares of Multi-carriers for any country pair





AIR FREEDOMS FOR COUNTRY PAIRS

Monitor "PAX" and "RPK" by Country Pairs and Air Freedoms



By freedom

By airline

Turkey to Russia air freedoms report for the year 2015

Air freedoms for traffic from **Turkey (TR)** to **Russia (RU)**

By freedom

By airline

Freedom	Pax	Rpk	
3	<div></div>	523,819 (53.54 %)	999,136,502 (48.72 %) ▼
3&6		8 (0.00 %)	0 (0.00 %) ▼
4	<div></div>	398,283 (40.71 %)	900,416,981 (43.90 %) ▼
6	<div></div>	20,325 (2.08 %)	63,928,122 (3.12 %) ▼
Multicarrier		34,427 (3.52 %)	84,400,447 (4.12 %)
Code share		5,529 (0.57 %)	13,144,653 (0.64 %)

1 - Query by Freedoms (Narrowed View)



AIR FREEDOMS FOR COUNTRY PAIRS

Monitor "PAX" and "RPK" by Country Pairs and Air Freedoms



By freedom

By airline

Turkey to Russia air freedoms report for the year 2015

Air freedoms for traffic from Turkey (TR) to Russia (RU)

By freedom

By airline

Freedom	✦ Pax	✦ Rpk	✦
3	<div></div>	523,819 (53.54 %)	<div></div> 999,136,502 (48.72 %) ▼
3&6		8 (0.00 %)	0 (0.00 %) ▼
4	<div></div>	398,283 (40.71 %)	<div></div> 900,416,981 (43.90 %)
Airline code	✦ Airline name	✦ Pax	✦ Rpk
SU	Aeroflot Russian Airlines	<div>235,764 (59.20 %)</div>	<div>532,374,916 (59.13 %)</div>
UN	Transaero Airlines	<div>144,324 (36.24 %)</div>	<div>316,971,578 (35.20 %)</div>
U6	Ural Airlines	<div>16,466 (4.13 %)</div>	<div>46,523,931 (5.17 %)</div>
UT	UTair Aviation	<div>1,048 (0.26 %)</div>	<div>2,797,100 (0.31 %)</div>
UR	UTair-Express	<div>321 (0.08 %)</div>	<div>639,315 (0.07 %)</div>
I8	Izhavia	<div>232 (0.06 %)</div>	<div>850,890 (0.09 %)</div>
DP	Pobeda	<div>47 (0.01 %)</div>	<div>114,876 (0.01 %)</div>
5N	Nordavia - Regional Airlines	<div>40 (0.01 %)</div>	<div>81,465 (0.01 %)</div>
S7	Siberia Airlines	<div>20 (0.01 %)</div>	<div>23,371 (0.00 %)</div>
D2	Severstal Aircompany	<div>6 (0.00 %)</div>	<div>13,275 (0.00 %)</div>
IO	IrAero	<div>4 (0.00 %)</div>	<div>0 (0.00 %)</div>
7R	Joint Stock Aviation Company RusLine	<div>4 (0.00 %)</div>	<div>6,332 (0.00 %)</div>
R3	Yakutia	<div>4 (0.00 %)</div>	<div>19,932 (0.00 %)</div>
Y7	Airline Tajmyr	<div>3 (0.00 %)</div>	<div>0 (0.00 %)</div>
6	<div></div>	20,325 (2.08 %)	<div></div> 63,928,122 (3.12 %) ▼
Multicarrier		34,427 (3.52 %)	84,400,447 (4.12 %)
Code share		5,529 (0.57 %)	13,144,653 (0.64 %)

2 - Query by Freedoms (Expanded View)



AIR FREEDOMS FOR COUNTRY PAIRS

Monitor "PAX" and "RPK" by Country Pairs and Air Freedoms

By freedom

By airline

Turkey to Russia air freedoms report for the year 2015

Air freedoms for traffic from Turkey (TR) to Russia (RU)

By freedom

By airline

Airline code	Airline name	Freedoms	Pax	Rpk
TK	Turkish Airlines	3	344,551 (35.22 %)	691,231,595 (33.70 %)
SU	Aeroflot Russian Airlines	4	235,764 (24.10 %)	532,374,915 (25.96 %)
UN	Transaero Airlines	4	144,324 (14.75 %)	315,971,573 (15.46 %)
PC	Pegasus Airlines	3, 3&6	97,977 (10.01 %)	133,295,259 (6.50 %)
8Q	Onur Air	3, 3&6	58,995 (6.03 %)	125,176,624 (6.10 %)
KK	AtlasGlobal	3	22,274 (2.28 %)	49,390,894 (2.41 %)
U6	Ural Airlines	4	15,465 (1.68 %)	46,523,931 (2.27 %)
9U	Air Moldova	6	7,511 (0.77 %)	14,304,050 (0.70 %)
PS	Ukraine International Airlines	6	2,681 (0.27 %)	5,052,015 (0.25 %)
J2	Azerbaijan Airlines	6	2,098 (0.21 %)	8,423,544 (0.41 %)
KC	Air Astana	6	1,958 (0.20 %)	7,672,502 (0.37 %)
OZ	Asiana Airlines	6	1,909 (0.20 %)	17,056,125 (0.83 %)
UT	UTair Aviation	4	1,048 (0.11 %)	2,797,100 (0.14 %)
B2	Belavia	6	823 (0.08 %)	1,543,602 (0.08 %)
AY	Finnair	6	733 (0.07 %)	2,057,649 (0.10 %)
RO	Tarom	6	515 (0.05 %)	924,300 (0.05 %)
LH	Lufthansa German Airlines	6	495 (0.05 %)	1,437,034 (0.07 %)
OS	SmartWings	6	405 (0.04 %)	1,434,758 (0.07 %)
OK	Czech Airlines	6	405 (0.04 %)	1,434,758 (0.07 %)
UR	UTair-Express	4	321 (0.03 %)	639,315 (0.03 %)
MulticARRIER			34,427 (3.52 %)	84,400,447 (4.12 %)
Code share			5,529 (0.57 %)	13,144,653 (0.64 %)

~ Show more

3 - Query by Airline (Narrowed View)



AIR FREEDOMS FOR COUNTRY PAIRS

Monitor "PAX" and "RPK" by Country Pairs and Air Freedoms

By freedom

By airline

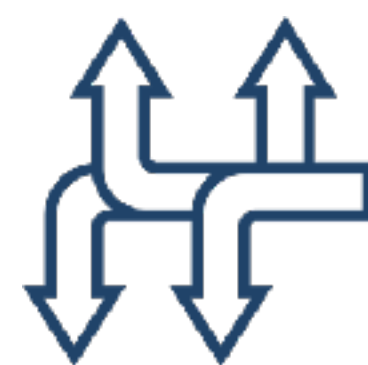
Turkey to Russia air freedoms report for the year 2015

Air freedoms for traffic from Turkey (TR) to Russia (RU)

		By freedom		By airline	
Airline code	Airline name	Freedom	Pax	RPK	
TK	Turkish Airlines	3	344,551 (35.22 %)	691,231,596 (33.70 %)	▲
Freedom			Pax	RPK	
3			344,551 (100.00 %)	691,231,596 (100.00 %)	
SU	Aeroflot Russian Airlines	4	235,754 (24.10 %)	532,374,916 (25.96 %)	▲
Freedom			Pax	RPK	
4			235,754 (100.00 %)	532,374,916 (100.00 %)	
UN	Transaero Airlines	4	144,324 (14.75 %)	315,971,578 (15.46 %)	▲
Freedom			Pax	RPK	
4			144,324 (100.00 %)	315,971,578 (100.00 %)	
PC	Pegasus Airlines	3, 386	97,977 (10.01 %)	133,299,269 (6.50 %)	▼
8Q	Onur Air	3, 386	58,996 (5.03 %)	125,175,624 (6.10 %)	▼
KK	AziasGlobal	3	22,274 (2.28 %)	45,290,894 (2.41 %)	▼
U6	Ural Airlines	4	15,466 (1.68 %)	40,523,931 (2.27 %)	▼
9L	Air Moldova	6	7,611 (0.77 %)	14,304,060 (0.70 %)	▼
PS	Ukraine International Airlines	6	2,681 (0.27 %)	5,052,015 (0.25 %)	▼
J2	Azerbaijan Airlines	6	2,098 (0.21 %)	8,423,544 (0.41 %)	▼
KC	Air Astana	6	1,958 (0.20 %)	7,672,502 (0.37 %)	▼
OZ	Asiana Airlines	6	1,909 (0.20 %)	17,068,125 (0.83 %)	▼
UT	UTair Aviation	4	1,048 (0.11 %)	2,797,100 (0.14 %)	▼
B2	Belavia	6	823 (0.08 %)	1,543,602 (0.08 %)	▼
AY	Finnair	6	733 (0.07 %)	2,057,649 (0.10 %)	▼
PO	Tarom	6	516 (0.05 %)	924,300 (0.05 %)	▼
LH	Lufthansa German Airlines	6	496 (0.05 %)	1,437,034 (0.07 %)	▼
OS	SmartWings	6	405 (0.04 %)	1,434,758 (0.07 %)	▼
OK	Czech Airlines	6	405 (0.04 %)	1,434,758 (0.07 %)	▼
UR	UTair-Express	4	321 (0.03 %)	639,315 (0.03 %)	▼
Multicarrier			34,427 (3.52 %)	84,400,447 (4.12 %)	
Code share			5,529 (0.57 %)	13,144,653 (0.64 %)	
▼ Show more					

4 - Query by Airline (Expanded View)

GATO



AIR FREEDOMS FOR AIRPORT PAIRS



INDEX



AIR FREEDOMS FOR AIRPORT PAIRS

Monitor "PAX" and "RPK" by Airport Pairs and Air Freedoms

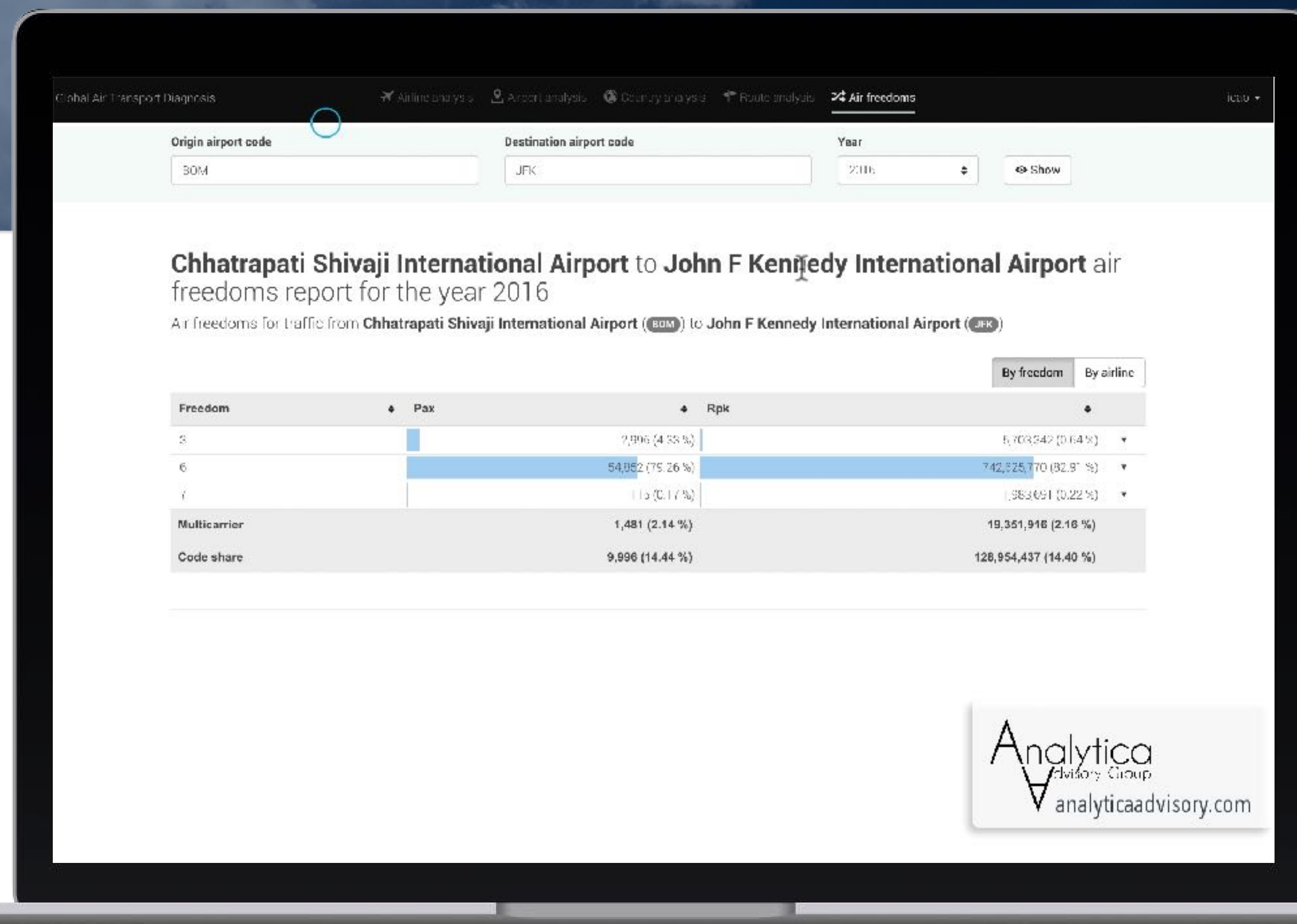
QUERY BY AIRLINES & FREEDOMS

TRAFFIC BY FREEDOMS AND AIRLINE

- View the traffic breakdowns between any selected airport 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

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





AIR FREEDOMS FOR AIRPORT PAIRS

Monitor "PAX" and "RPK" by Airport Pairs and Air Freedoms



By freedom

By airline

Chhatrapati Shivaji International Airport to John F Kennedy International Airport air freedoms report for the year 2016

Air freedoms for traffic from Chhatrapati Shivaji International Airport (BCM) to John F Kennedy International Airport (JFK)

By freedom By airline

Freedom	Pax	Rpk	
3	<div><div></div></div>	2,996 (4.33 %)	5,703,342 (0.64 %) ▼
6	<div><div></div></div>	54,852 (79.26 %)	742,625,770 (82.91 %) ▼
7	<div><div></div></div>	115 (0.17 %)	1,983,691 (0.22 %) ▼
MulticARRIER		1,481 (2.14 %)	19,351,916 (2.16 %)
Code share		9,996 (14.44 %)	128,954,437 (14.40 %)

1- Query by Freedoms (Narrowed View)



AIR FREEDOMS FOR AIRPORT PAIRS

Monitor "PAX" and "RPK" by Airport Pairs and Air Freedoms

By freedom

By airline

Chhatrapati Shivaji International Airport to John F Kennedy International Airport air freedoms report for the year 2016

Air freedoms for traffic from Chhatrapati Shivaji International Airport (BOM) to John F Kennedy International Airport (JFK)

		By freedom		By airline	
Freedom		Pax	Rpk		
3		2,996 (4.33 %)	5,703,342 (0.64 %)		
6		54,852 (79.26 %)	742,625,770 (82.91 %)		
Airline code	Airline name	Pax	Rpk		
EK	Emirates	20,732 (37.80 %)	267,865,251 (36.07 %)		
EY	Etihad Airways	12,519 (23.01 %)	163,980,121 (22.08 %)		
BA	British Airways	6,409 (11.68 %)	81,659,219 (11.00 %)		
QR	Qatar Airways	3,769 (6.87 %)	49,168,843 (6.62 %)		
TK	Turkish Airlines	2,659 (4.85 %)	34,195,042 (4.60 %)		
KU	Kuwait Airways	2,401 (4.38 %)	62,453,435 (8.41 %)		
LH	Lufthansa German Airlines	2,048 (3.73 %)	26,134,048 (3.52 %)		
LX	Swiss/Crossair	1,480 (2.70 %)	18,997,324 (2.56 %)		
SV	Saudi Arabian Airlines	849 (1.55 %)	11,621,581 (1.56 %)		
CA	Air China	554 (1.01 %)	8,693,505 (1.17 %)		
MS	Egyptair	545 (0.99 %)	7,269,077 (0.98 %)		
AF	Air France	533 (0.97 %)	6,778,846 (0.91 %)		
NH	All Nippon Airways	114 (0.21 %)	1,993,452 (0.27 %)		
FZ	Flydubai	105 (0.19 %)	1,344,042 (0.18 %)		
LY	El Al Israel Airlines	21 (0.04 %)	288,115 (0.04 %)		
VS	Virgin Atlantic Airways	7 (0.01 %)	87,424 (0.01 %)		
KE	Korean Air	5 (0.01 %)	96,443 (0.01 %)		
7		115 (0.17 %)	1,983,691 (0.22 %)		
Multicarrier		1,481 (2.14 %)	19,351,916 (2.16 %)		
Code share		9,996 (14.44 %)	128,954,437 (14.40 %)		

2 - Query by Freedoms (Expanded View)



AIR FREEDOMS FOR AIRPORT PAIRS

Monitor "PAX" and "RPK" by Airport Pairs and Air Freedoms

By freedom

By airline

Chhatrapati Shivaji International Airport to John F Kennedy International Airport air freedoms report for the year 2016

Air freedoms for traffic from Chhatrapati Shivaji International Airport (BOM) to John F Kennedy International Airport (JFK)

		By freedom		By airline	
Airline code	Airline name	Freedoms	Pax	Rpk	
EK	Emirates	6	20,732 (29.96 %)	267,866,261 (29.90 %)	▼
EY	Etihad Airways	6	12,619 (18.24 %)	163,980,121 (18.31 %)	▼
BA	British Airways	6	6,409 (9.26 %)	81,659,219 (9.12 %)	▼
QR	Qatar Airways	6	3,769 (5.45 %)	49,168,843 (5.49 %)	▼
AI	Air India	3	2,870 (4.15 %)	4,248,320 (4.7 %)	▼
TK	Turkish Airlines	6	2,659 (3.84 %)	34,195,042 (3.82 %)	▼
KU	Kuwait Airways	6	2,401 (3.47 %)	62,453,435 (6.97 %)	▼
LH	Lufthansa German Airlines	6	2,048 (2.96 %)	25,134,048 (2.92 %)	▼
LX	Swiss/Crossair	6	1,480 (2.14 %)	18,997,324 (2.12 %)	▼
SV	Saudi Arabian Airlines	6	849 (1.23 %)	11,621,581 (1.30 %)	▼
CA	Air China	6	554 (0.80 %)	8,693,506 (0.97 %)	▼
MS	Egyptair	6	545 (0.79 %)	7,269,077 (0.81 %)	▼
AF	Air France	6	533 (0.77 %)	6,778,846 (0.76 %)	▼
CX	Cathay Pacific Airways	7	115 (0.17 %)	1,983,691 (0.22 %)	▼
NH	All Nippon Airways	6	114 (0.16 %)	1,993,452 (0.22 %)	▼
FZ	Flydubai	6	106 (0.15 %)	1,344,042 (0.15 %)	▼
6E	IndiGo Air	3	65 (0.09 %)	709,728 (0.08 %)	▼
G8	Go Air	3	30 (0.04 %)	388,641 (0.04 %)	▼
SG	SpiceJet	3	28 (0.04 %)	329,851 (0.04 %)	▼
LY	El Al Israel Airlines	6	21 (0.03 %)	288,116 (0.03 %)	▼
Multicarrier			1,481 (2.14 %)	19,351,916 (2.16 %)	
Code share			9,996 (14.44 %)	128,954,437 (14.40 %)	
▼ Show more					

3 - Query by Airline (Narrowed View)



AIR FREEDOMS FOR AIRPORT PAIRS

Monitor "PAX" and "RPK" by Airport Pairs and Air Freedoms

By freedom

By airline

Chhatrapati Shivaji International Airport to John F Kennedy International Airport air freedoms report for the year 2016

Air freedoms for traffic from Chhatrapati Shivaji International Airport (BOM) to John F Kennedy International Airport (JFK)

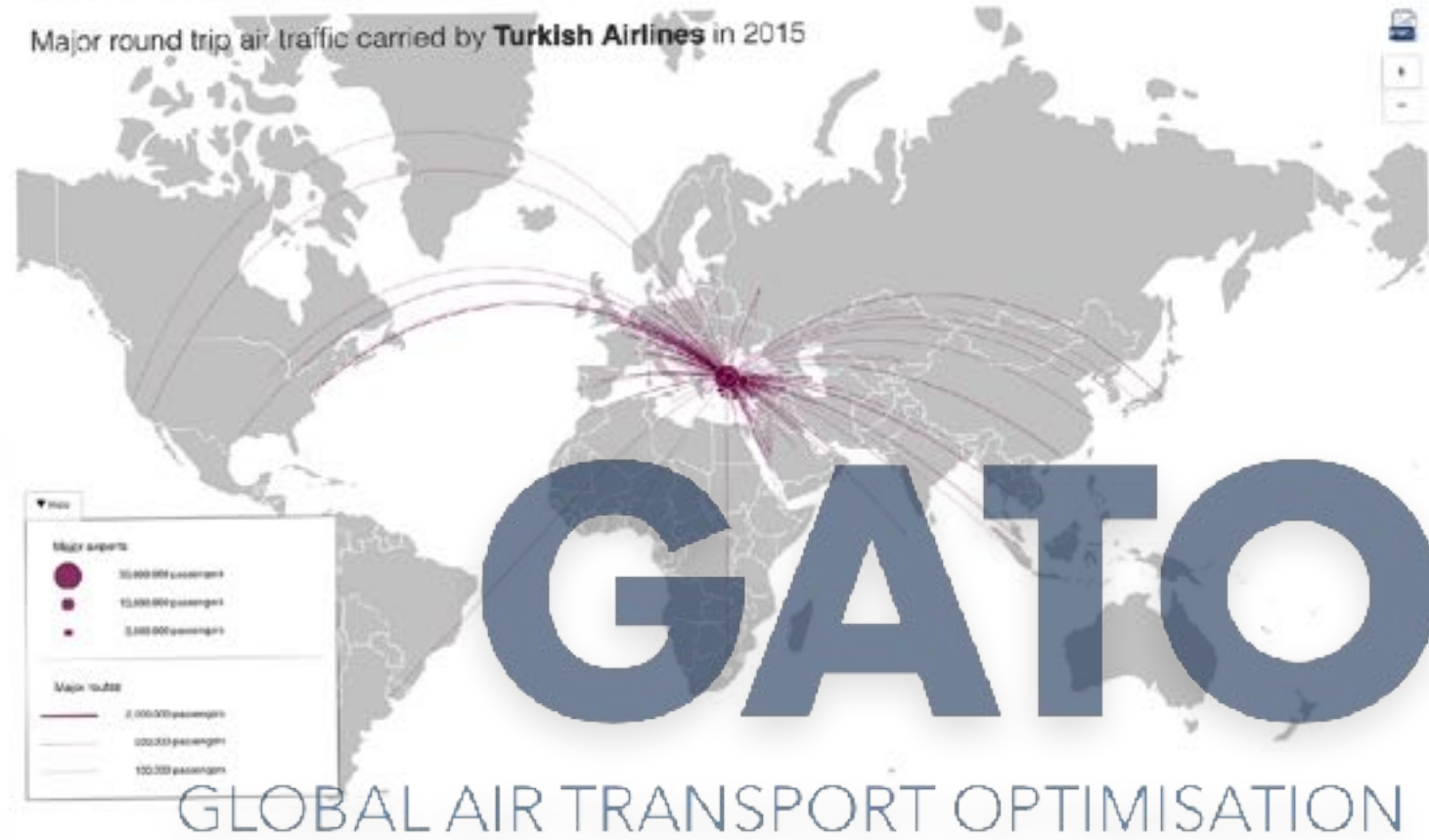
		By freedom		By airline	
Airline code	Airline name	Freedoms	Pax	Rpk	
EK	Emirates	6	20,732 (29.95 %)	267,865,251 (29.90 %)	▲
Freedom		Pax	Rpk		
6		20,732 (100.00 %)	267,865,251 (100.00 %)		
EY	Etihad Airways	6	12,619 (18.24 %)	163,980,121 (18.31 %)	▼
BA	British Airways	6	6,409 (9.26 %)	81,699,219 (9.12 %)	▼
QR	Qatar Airways	6	3,769 (5.45 %)	49,168,843 (5.49 %)	▼
AI	Air India	3	2,870 (4.15 %)	4,248,320 (0.47 %)	▼
TK	Turkish Airlines	6	2,659 (3.84 %)	34,195,042 (3.82 %)	▼
KU	Kuwait Airways	6	2,401 (3.47 %)	62,453,435 (6.97 %)	▼
LH	Lufthansa German Airlines	6	2,048 (2.95 %)	26,134,048 (2.92 %)	▼
LX	Swiss/Crossair	6	1,480 (2.14 %)	18,997,324 (2.12 %)	▼
SV	Saudi Arabian Airlines	6	849 (1.23 %)	11,621,581 (1.30 %)	▼
CA	Air China	6	554 (0.80 %)	8,693,506 (0.97 %)	▼
MS	Egyptair	6	545 (0.79 %)	7,269,077 (0.81 %)	▼
AF	Air France	6	533 (0.77 %)	6,778,846 (0.76 %)	▼
CX	Cathay Pacific Airways	7	115 (0.17 %)	1,983,691 (0.22 %)	▼
NH	All Nippon Airways	6	114 (0.16 %)	1,993,452 (0.22 %)	▼
FZ	Flydubai	6	106 (0.15 %)	1,344,042 (0.15 %)	▼
6E	IndiGo Air	3	65 (0.09 %)	709,728 (0.08 %)	▼
GB	Go Air	3	30 (0.04 %)	388,641 (0.04 %)	▼
SG	SpiceJet	3	28 (0.04 %)	329,851 (0.04 %)	▼
LY	El Al Israel Airlines	6	21 (0.03 %)	288,116 (0.03 %)	▼
MulticARRIER			1,481 (2.14 %)	19,351,916 (2.16 %)	
Code share			9,996 (14.44 %)	128,954,437 (14.40 %)	
Show more					

4 - Query by Airline (Expanded View)

“ DATA-DRIVEN, ACCURATE, FAST & ELEGANT
ANALYSIS & REPORTING ”

DATA-DRIVEN, ACCURATE AND ELEGANT REPORTING WITH GATO

Major round trip air traffic carried by **Turkish Airlines** in 2015



Traffic statistics for **Turkish Airlines**, 2015

Traffic between all airport pairs for Turkish Airlines airline.

62,459,147	80,102,008	77.97 %	451,859	177.27	1,202
TOTAL PAX	TOTAL SEATS	LOAD FACTOR	TOTAL FLIGHTS	SEATS PER FLIGHT	BIWAY CONNECTIONS

Connections /One-way connections/

Show names

Departure airport	Arrival airport	Passengers	Seats	Load factor
IST	ESB	965,403 (1.61 %)	1,354,501 (1.08 %)	71.04 %
ESB	IST	784,802 (1.52 %)	1,354,504 (1.08 %)	70.56 %
IST	ADB	872,887 (1.30 %)	1,817,892 (1.23 %)	70.84 %
ADB	IST	804,150 (1.29 %)	1,818,398 (1.23 %)	70.90 %
	AYT	271,856 (1.08 %)	382,295 (1.05 %)	71.16 %
	AYT	271,856 (1.08 %)	382,295 (1.05 %)	71.16 %
ESB	SAW	417,595 (0.67 %)	451,787 (0.6 %)	79.55 %
TLV	IST	404,584 (0.56 %)	451,787 (0.6 %)	79.55 %
IST	TLV	387,119 (0.50 %)	451,787 (0.6 %)	79.55 %
ADA	IST	387,119 (0.50 %)	451,787 (0.6 %)	79.55 %
IST	ADA	387,119 (0.50 %)	451,787 (0.6 %)	79.55 %
ADB	ESB	367,240 (0.59 %)	451,787 (0.6 %)	79.55 %
ESB	ADB	358,110 (0.57 %)	451,787 (0.6 %)	79.55 %
ADB	SAW	355,240 (0.54 %)	427,389 (0.58 %)	83.14 %
SAW	ADB	351,543 (0.54 %)	427,389 (0.58 %)	82.26 %
IST	AYT	341,250 (0.55 %)	428,979 (0.58 %)	79.55 %
AYT	IST	341,250 (0.55 %)	428,979 (0.58 %)	79.55 %

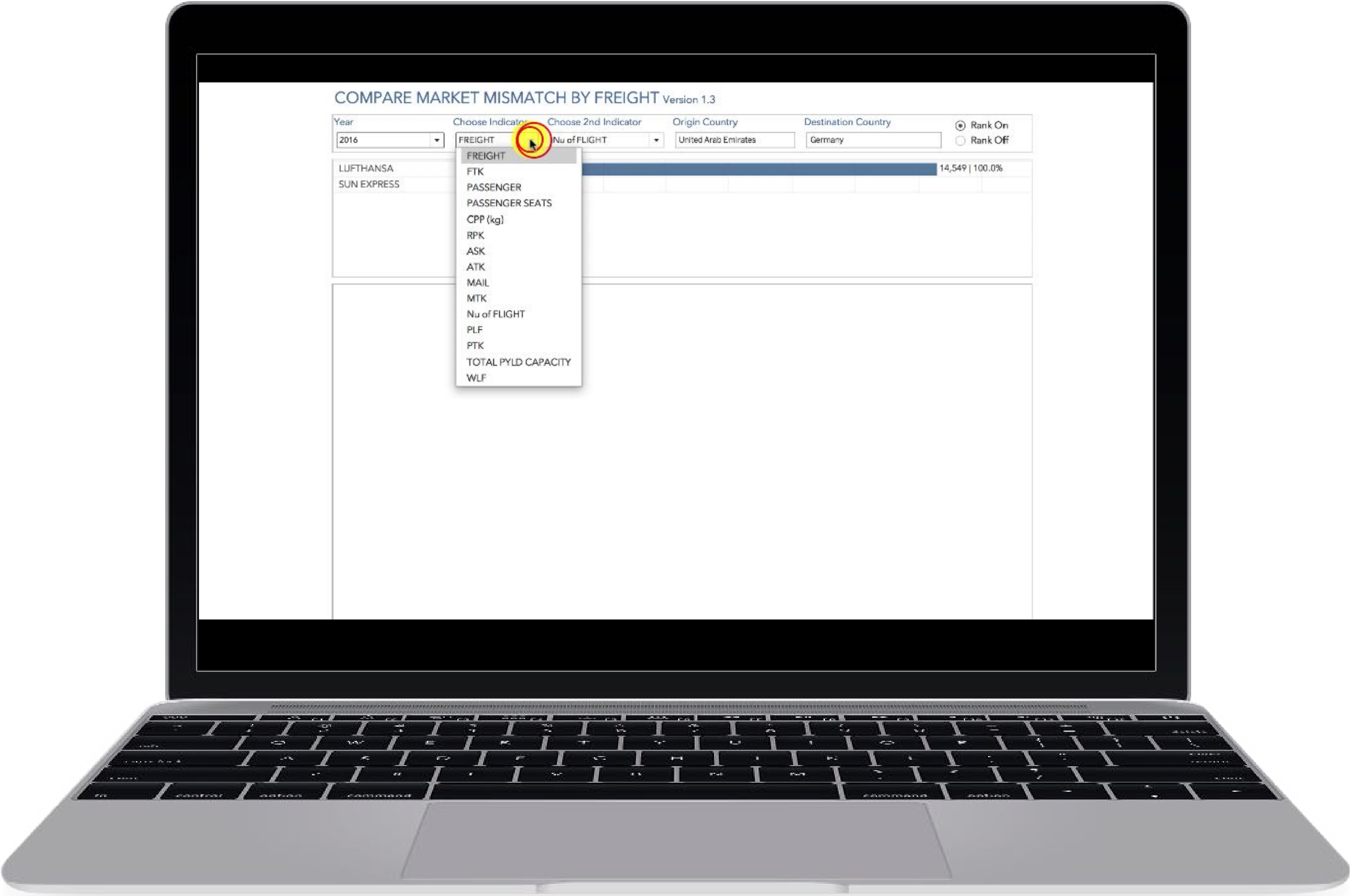


AIR CARGO OPTIMISER,,

UNDER CONSTRUCTION
AVAILABLE IN 2020

AIR CARGO OPTIMISER

UNDER CONSTRUCTION
AVAILABLE IN 2020





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THANK YOU

Alper AKBAŞ
Co-Founder | Analytica Advisory Group
alper.akbas@analyticaadvisory.com
<https://www.analyticaadvisory.com>