AVIATION DATA AND ANALYSIS SEMINAR
08-12 July 2019
ISTANBUL
GLOBAL AIR TRANSPORT OPTIMIZER

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

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+1,000 Products
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Your gateway to ICAO's Civil Aviation Intelligence.
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

Airline analysis
Airport analysis
Country analysis
Route analysis
Air freedoms for country pair
Air freedoms for airport pair

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.

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.

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.

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.

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.

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, cargo, and fleet data by airline and evolution of traffic over time.

**AIRPORT ANALYSIS**
Detailed breakdown of airport traffic in different connectivity scenarios by origin and connecting airports.

**COUNTRY ANALYSIS**
Detailed breakdown of airport traffic in different connectivity scenarios by origin and connecting countries.

**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 region pair. This unique feature of this module is the ability to view market share by frequency of air routes.

**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 change scenarios.
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.
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

1. "STATISTICS" Sub-Module

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

“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

Major round trip air traffic carried by Turkish Airlines in 2015
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
AIRLINE ANALYSIS MODULE

III. “EVOLUTION OVER TIME” Sub-Module

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.
1. STATISTICS MODULE

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.

ALL THE AIRPORTS YOU LOOK FOR

Use two sub-modules (“Statistics” & “Maps”) to get more insights on traffic flows.
AIRPORT ANALYSIS MODULE
Airport traffic and connectivity statistics.

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.

ALL THE AIRPORTS YOU LOOK FOR

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

WITH ALL BREAKDOWNS OF TRAFFIC

1. STATISTICS MODULE
2. MARKET SHARES FOR AIRPORTS BY AIRLINES
AIRPORT ANALYSIS MODULE

Airport traffic and connectivity statistics.

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.

ALL THE AIRPORTS YOU LOOK FOR

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
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.

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

---

<table>
<thead>
<tr>
<th>TRAFFIC</th>
<th>Breakdown of outbound traffic from Atatürk International Airport (2017)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total traffic</strong></td>
<td>64,248,694</td>
</tr>
<tr>
<td><strong>Origin</strong></td>
<td>14,411,920</td>
</tr>
<tr>
<td><strong>Destination</strong></td>
<td>14,372,390</td>
</tr>
<tr>
<td><strong>Transfer</strong></td>
<td>35,464,374</td>
</tr>
</tbody>
</table>

Download as Excel
Airport Analysis Module

I.A. “Statistics” Traffic Table

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

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

- Non-stop
  - IST → X
- Non-stop & beyond
  - IST → X → X
- Connecting
  - IST → X → X
- Connecting & beyond
  - IST → X → X → X
- Behind & non-stop
  - → IST → X
- Behind & non-stop & beyond
  - → IST → X → X
- Behind & connecting
  - → IST → X → X → X

Traffic Table

<table>
<thead>
<tr>
<th>Airport</th>
<th>Domestic pax</th>
<th>International pax</th>
<th>Total pax</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antalya</td>
<td>537,760 (11.74%)</td>
<td>0 (0.00%)</td>
<td>537,760 (4.22%)</td>
</tr>
</tbody>
</table>
## B. MARKET SHARE

### I.B. “STATISTICS” 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

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

#### Turkish Airlines

<table>
<thead>
<tr>
<th>Type</th>
<th>PAX</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Domestic pax</td>
<td>3,577,727</td>
<td>63.38%</td>
</tr>
<tr>
<td>International pax</td>
<td>20,732,450</td>
<td>79.47%</td>
</tr>
<tr>
<td>Total pax</td>
<td>24,310,177</td>
<td>76.61%</td>
</tr>
</tbody>
</table>

#### Other Airlines

- **Qatar Airways**
  - Domestic pax: 1,234,320, 21.89%
  - International pax: 656,436, 25.72%
  - Total pax: 1,890,756, 57.61%
- **AirEuropa**
  - Domestic pax: 3,577,727, 71.2%
  - International pax: 20,732,450, 39.06%
  - Total pax: 24,310,177, 71.22%
- **AirEuropa**
  - Domestic pax: 948,763, 53.15%
  - International pax: 1,136,996, 66.21%
  - Total pax: 2,085,759, 66.21%
C. TRANSFER TRAFFIC

I.C. “STATISTICS” Transfer Traffic Table

- 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

Monitor the breakdown of traffic where the selected airport is the transfer airport

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.
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

Major air traffic originating from Atatürk International Airport in 2016.
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

Traffic statistics for Turkey, 2016
Outbound one way traffic from Turkey:

- **Total Traffic**: 53,654,133
- **Domestic Traffic**: 31,132,825
- **International Traffic**: 22,421,308

1. Quick Summary Box Illustrating Outbound One Way Traffic
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

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

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

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

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
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

Major international air traffic originating from Turkey in 2016

Originated Traffic as Vector Map & HD PNG Outputs
ROUTE ANALYSIS MODULE
ROUTE ANALYSIS MODULE
Monitor & Analyze one way traffic between any two airports

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**

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Traffic</td>
<td>568,534</td>
<td>100%</td>
</tr>
<tr>
<td>Total Non-Stop Traffic</td>
<td>561,575</td>
<td>98.8%</td>
</tr>
<tr>
<td>Total Connecting Traffic</td>
<td>6,959</td>
<td>1.2%</td>
</tr>
</tbody>
</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 & Beyond
- Connecting Traffic
  - Connecting
  - Behind & Connecting
  - Connecting & Beyond

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

Traffic passing through Atatürk International Airport and then London Heathrow Airport.

- Total Traffic: 568,534
- Total Non-Stop Traffic: 561,575 (98.8%)
- Total Connecting Traffic: 6,959 (1.2%)

**Graphs**

- Circular chart showing distribution of traffic types.
- Breakdowns in a pie chart format.
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
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 – Atatürk
Behind pax: 18,904
Behind pax share*: 3.33%
* in total pax
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

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
**Turkey to Russia** air freedoms report for the year 2015

Air freedoms for traffic from **Turkey** to **Russia**

<table>
<thead>
<tr>
<th>Freedom</th>
<th>Pax</th>
<th>RPK</th>
<th>By freedom</th>
<th>By airline</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>523,019 (53.54 %)</td>
<td>999,135,502 (48.72 %)</td>
<td>▼</td>
<td></td>
</tr>
<tr>
<td>3a6</td>
<td>8 (0.00 %)</td>
<td>0 (0.00 %)</td>
<td>▼</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>398,283 (40.71 %)</td>
<td>900,416,081 (43.90 %)</td>
<td>▼</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>20,025 (2.09 %)</td>
<td>63,938,722 (3.12 %)</td>
<td>▼</td>
<td></td>
</tr>
<tr>
<td>Multicarrier</td>
<td>34,427 (3.52 %)</td>
<td>84,499,447 (4.12 %)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Code share</td>
<td>5,529 (0.57 %)</td>
<td>13,144,653 (0.64 %)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1 - Query by Freedoms (Narrowed View)
AIR FREEDOMS FOR COUNTRY PAIRS
Monitor “PAX” and “RPK” by Country Pairs and Air Freedoms

Turkey to Russia air freedoms report for the year 2015
Air freedoms for traffic from Turkey to Russia

2 - Query by Freedoms (Expanded View)
## Turkey to Russia air freedoms report for the year 2015

<table>
<thead>
<tr>
<th>Airline code</th>
<th>Airline name</th>
<th># Freeways</th>
<th>PAX</th>
<th>RPK</th>
</tr>
</thead>
<tbody>
<tr>
<td>TK</td>
<td>Turkish Airlines</td>
<td>3</td>
<td>86,581 (35.12%)</td>
<td>88,1,233,805 (33.73%)</td>
</tr>
<tr>
<td>SU</td>
<td>Aeroflot Cargo Airlines</td>
<td>4</td>
<td>230,764 (10.19%)</td>
<td>503,370,115 (10.56%)</td>
</tr>
<tr>
<td>VA</td>
<td>Transaviar Airlines</td>
<td>4</td>
<td>144,330 (24.75%)</td>
<td>31,531,371 (15.46%)</td>
</tr>
<tr>
<td>RO</td>
<td>Regional Airlines</td>
<td>2</td>
<td>97,677 (20.15%)</td>
<td>118,593,150 (20.15%)</td>
</tr>
<tr>
<td>SI</td>
<td>Iberia</td>
<td>4</td>
<td>109,998 (20.15%)</td>
<td>119,514,495 (19.19%)</td>
</tr>
<tr>
<td>VV</td>
<td>Winter Jet</td>
<td>5</td>
<td>25,214 (10.38%)</td>
<td>48,008,894 (21.19%)</td>
</tr>
<tr>
<td>VY</td>
<td>Zagreb Airlines</td>
<td>4</td>
<td>10,486 (10.87%)</td>
<td>44,002,091 (22.77%)</td>
</tr>
<tr>
<td>SU</td>
<td>Air Moldavia Airlines</td>
<td>4</td>
<td>7,331 (10.72%)</td>
<td>14,020,880 (22.79%)</td>
</tr>
<tr>
<td>PS</td>
<td>Ukraine International Airlines</td>
<td>3</td>
<td>2,991 (5.13%)</td>
<td>6,005,910 (9.28%)</td>
</tr>
<tr>
<td>JI</td>
<td>American Airlines</td>
<td>3</td>
<td>9,968 (3.31%)</td>
<td>6,602,234 (3.51%)</td>
</tr>
<tr>
<td>KT</td>
<td>Air Baltic Airlines</td>
<td>6</td>
<td>1,909 (3.99%)</td>
<td>7,075,532 (2.77%)</td>
</tr>
<tr>
<td>OZ</td>
<td>Transaero Airlines</td>
<td>6</td>
<td>1,909 (3.99%)</td>
<td>11,026,125 (2.53%)</td>
</tr>
<tr>
<td>UT</td>
<td>Utair-Aeroflot</td>
<td>4</td>
<td>1,240 (5.13%)</td>
<td>2,797,130 (2.14%)</td>
</tr>
<tr>
<td>BZ</td>
<td>Belavia</td>
<td>3</td>
<td>823 (3.99%)</td>
<td>1,542,020 (2.98%)</td>
</tr>
<tr>
<td>AF</td>
<td>AirFerry Airways</td>
<td>6</td>
<td>719 (3.99%)</td>
<td>2,057,645 (1.79%)</td>
</tr>
<tr>
<td>RO</td>
<td>Tarom</td>
<td>6</td>
<td>316 (2.15%)</td>
<td>528,000 (0.95%)</td>
</tr>
<tr>
<td>LH</td>
<td>Austrian Airlines</td>
<td>6</td>
<td>646 (0.61%)</td>
<td>1,897,534 (1.67%)</td>
</tr>
<tr>
<td>CS</td>
<td>CSA Airlines</td>
<td>6</td>
<td>925 (0.61%)</td>
<td>1,542,756 (0.74%)</td>
</tr>
<tr>
<td>SK</td>
<td>Czech Airlines</td>
<td>6</td>
<td>948 (0.61%)</td>
<td>1,542,756 (0.74%)</td>
</tr>
<tr>
<td>HB</td>
<td>Helvetic Airways</td>
<td>6</td>
<td>371 (0.61%)</td>
<td>630,213 (0.29%)</td>
</tr>
<tr>
<td>W1</td>
<td>Wizz Air</td>
<td>1</td>
<td>34,447 (0.62%)</td>
<td>84,409,643 (1.73%)</td>
</tr>
</tbody>
</table>

**Total for the year 2015:**

- **PAX:** 1,539,060 (35.12%)
- **RPK:** 44,444,615 (10.74%)
### Turkey to Russia air freedoms report for the year 2015

**Route Codes**

<table>
<thead>
<tr>
<th>Route Code</th>
<th>Airline Name</th>
<th>Pax</th>
<th>Pck</th>
</tr>
</thead>
<tbody>
<tr>
<td>PS</td>
<td>Pegasus Airlines</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BC</td>
<td>Alitalia</td>
<td></td>
<td></td>
</tr>
<tr>
<td>KK</td>
<td>Turkish Airlines</td>
<td></td>
<td></td>
</tr>
<tr>
<td>KD</td>
<td>Lufthansa</td>
<td></td>
<td></td>
</tr>
<tr>
<td>KS</td>
<td>Fokker Airlines</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PO</td>
<td>Pobeda Airlines</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SU</td>
<td>Aeroflot</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Airline Names**

- Pegasus Airlines
- Alitalia
- Turkish Airlines
- Lufthansa
- Fokker Airlines
- Pobeda Airlines
- Aeroflot

**By Freedom**

<table>
<thead>
<tr>
<th>Airfreedom</th>
<th>Pax</th>
<th>Pck</th>
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**By Airline**

<table>
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<th>Pck</th>
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<tbody>
<tr>
<td>Pegasus</td>
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</tbody>
</table>

---

**4 - Query by Airline (Expanded View)**
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
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 (Mumbai) to John F Kennedy International Airport (New York)

<table>
<thead>
<tr>
<th>Freedom</th>
<th>Pax</th>
<th>Rpk</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>2,096 (43.8%)</td>
<td>5,703,342 (0.64%)</td>
</tr>
<tr>
<td>6</td>
<td>54,062 (79.26%)</td>
<td>742,025,770 (62.91%)</td>
</tr>
<tr>
<td>7</td>
<td>1,15 (0.17%)</td>
<td>1,983,601 (0.22%)</td>
</tr>
<tr>
<td>Multi-carrier</td>
<td>1,481 (2.14%)</td>
<td>19,351,916 (2.16%)</td>
</tr>
<tr>
<td>Code share</td>
<td>9,908 (14.44%)</td>
<td>128,954,437 (14.40%)</td>
</tr>
</tbody>
</table>

1- Query by Freedoms (Narrowed View)
2 - Query by Freedoms (Expanded View)
AIR FREEDOMS FOR AIRPORT PAIRS
Monitor “PAX” and “RPK” by Airport Pairs and Air Freedoms

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**

---

**4 - Query by Airline (Expanded View)**
ANALYSIS & REPORTING

DATA-DRIVEN, ACCURATE, FAST & ELEGANT

GATO
GLOBAL AIR TRANSPORT OPTIMISATION
AIR CARGO OPTIMISER
UNDER CONSTRUCTION
AVAILABLE IN 2020
**COMPARE MARKET MISMATCH BY FREIGHT**

<table>
<thead>
<tr>
<th>Year</th>
<th>Choose Indicator</th>
<th>Choose 2nd Indicator</th>
<th>Origin Country</th>
<th>Destination Country</th>
<th>Q1 Rank</th>
<th>Q2 Rank</th>
</tr>
</thead>
<tbody>
<tr>
<td>2019</td>
<td>FREIGHT</td>
<td>LUFTHANSA</td>
<td>United States</td>
<td>Germany</td>
<td>ON</td>
<td>OFF</td>
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</tbody>
</table>

LUFTHANSA

**SU LA EXPRESS**

<table>
<thead>
<tr>
<th>Indicator</th>
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<tbody>
<tr>
<td>FTY</td>
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<tr>
<td>PASSENGER</td>
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<tr>
<td>PASSENGER SKIES</td>
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<tr>
<td>CPN (kg)</td>
<td></td>
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<td>MPH</td>
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<tr>
<td>A3K</td>
<td></td>
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<tr>
<td>A3K</td>
<td></td>
</tr>
<tr>
<td>MAIL</td>
<td></td>
</tr>
<tr>
<td>MFK</td>
<td></td>
</tr>
<tr>
<td>MFL</td>
<td></td>
</tr>
<tr>
<td>TOTAL MFL/CAPACITY</td>
<td></td>
</tr>
<tr>
<td>NUL</td>
<td></td>
</tr>
</tbody>
</table>
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THANK YOU

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