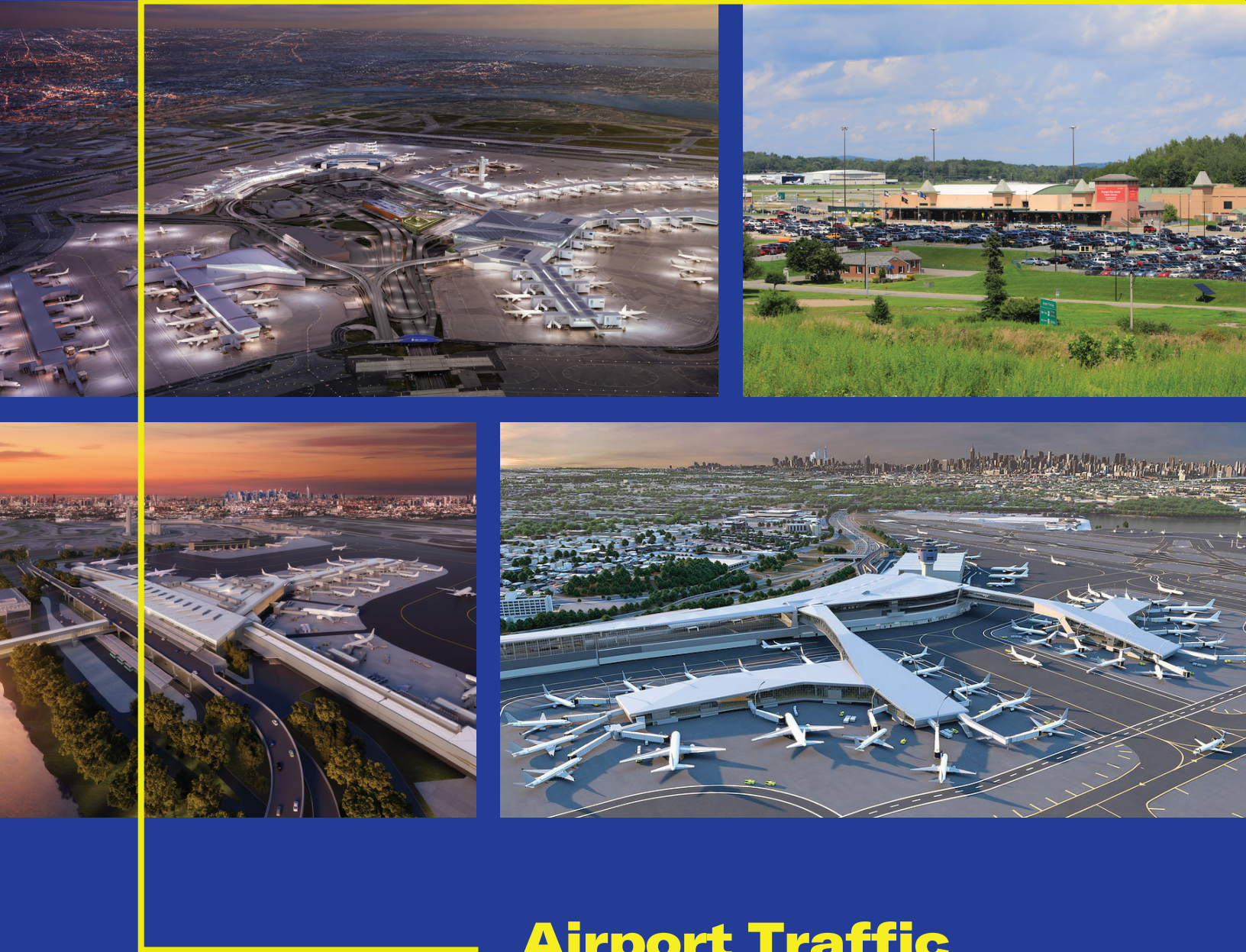




Airport Traffic Dashboard (ATD) User Guide

Port Authority of New York and New Jersey Airport Traffic Dashboard (ATD) User Guide

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INTRODUCTION

The Airport Traffic Dashboard (ATD) provides an alternative way for members of the aviation community and the public to access the Port Authority of New York and New Jersey's (PANYNJ) historical airport traffic data. The ATD reflects the Aviation Department's commitment to data transparency, accuracy, and staff efficiency. In accordance with industry best practices, the ATD allows the Aviation Department to better transmit data and provides opportunities for greater flexibility with data visualization. It also provides airport statistics in a convenient format based on the identified needs of our external stakeholders.

Some of the major user benefits of the ATD:

- Ensures external stakeholders have access to up-to-date historical data including the most recent reporting month.
- Provides an interactive tool that encourages user friendly data filtering and analysis.
- Allows users to easily explore data, identify trends & patterns, and customize to suit user-specific needs and preferences.
- Can adapt with evolving needs and strategies of various stakeholders using real-time data for improved decision-making.
- Can be referenced by public users to fulfill data requests.
- Promotes data consistency amongst stakeholders.
- Increases transparency of data sharing for open data initiatives.

The Airport Traffic Dashboard is managed by the PANYNJ Aviation Department and can be accessed on the [PANYNJ website](#).

For any questions about the Airport Traffic Dashboard and its data, contact avstatistics@panynj.gov.

DATA DESCRIPTION

The ATD captures passenger, flight, cargo and ground transportation data for the four PANYNJ airports that provide commercial service: John F. Kennedy International Airport (JFK), Newark Liberty International Airport (EWR), LaGuardia Airport (LGA), and New York Stewart International Airport (SWF).

All air traffic data (passenger, flight, cargo) is collected through the PANYNJ Airline Data Entry Portal (ADEP), managed by the Strategic Analysis & Forecasting (SAF) team. Airlines submit data directly through the ADEP system at the beginning of each month. The data is then reviewed and validated by the SAF team to ensure all submissions are accurate before being made available to the public.

The majority of data found in the ATD is identical to the data formerly included in PANYNJ's Monthly Air Traffic Report (MATR). However, there are a few new data categories and detailed views of some of the existing data. Notably, the ground transportation data has been expanded to include a for-hire vehicle category which tracks the combined pick-ups/drop-offs for both rideshare app and black car vehicles. New detailed views are also available for passengers by airport terminal, cargo (short tons) by type, cargo (short tons) by direction, and carrier market share by passengers/flights/cargo. The ATD also includes a detailed view of passengers, flights, and cargo by airline.

The ATD will be updated on the same monthly schedule as the former monthly air traffic reports. New monthly data will appear about 3-4 weeks after the conclusion of the month and will be updated before the end of the following month. Historical data will be refreshed daily to ensure that the dashboard reflects the most accurate information available at that time.

Please note that time frame restrictions apply to select ATD data.

- Data for SWF is available from 2008-present because 2008 was the first full year of PANYNJ operations at SWF.
- Flight schedule data by Airline Data Inc. (ADI) is available from 2015-present. The "year" filter will not allow users to access years prior to 2015 for this data category.
- Customer demographic data by Airport Council International (ACI) is available from 2018-present. The "year" filter will not allow users to access years prior to 2018 for this data category.
- FHV data is available January 2023-present. The "year" filter will not allow users to access years prior to 2023 for this data category. YoY percentage data will show up as "Infinity" for all months in 2023.
- All other data on the dashboard is available from 2000-present. This is consistent with data that is available to the public in the MATR and Annual Traffic Report (ATR).

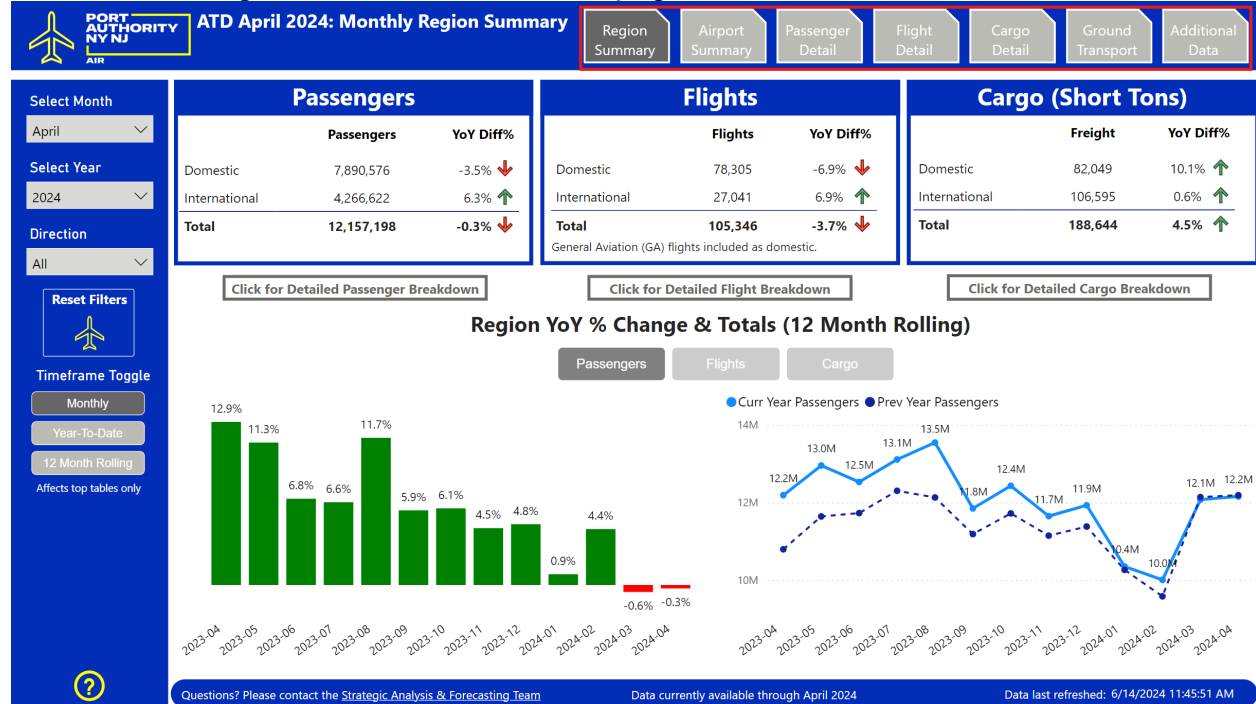
Users interested in conducting their own analysis and/or creating additional data visualizations are encouraged to download the raw Aviation Statistics data set provided in CSV format on the PANYNJ website.

The dataset contains passenger, cargo, and flight data for PANYNJ airports, released in a Comma Separated Values (CSV) format. The dataset contains data back to January 2000 and updated every month. Data from the most recent reporting period will be made available at the end of each month. The current month's data will be available at the end of the following month.

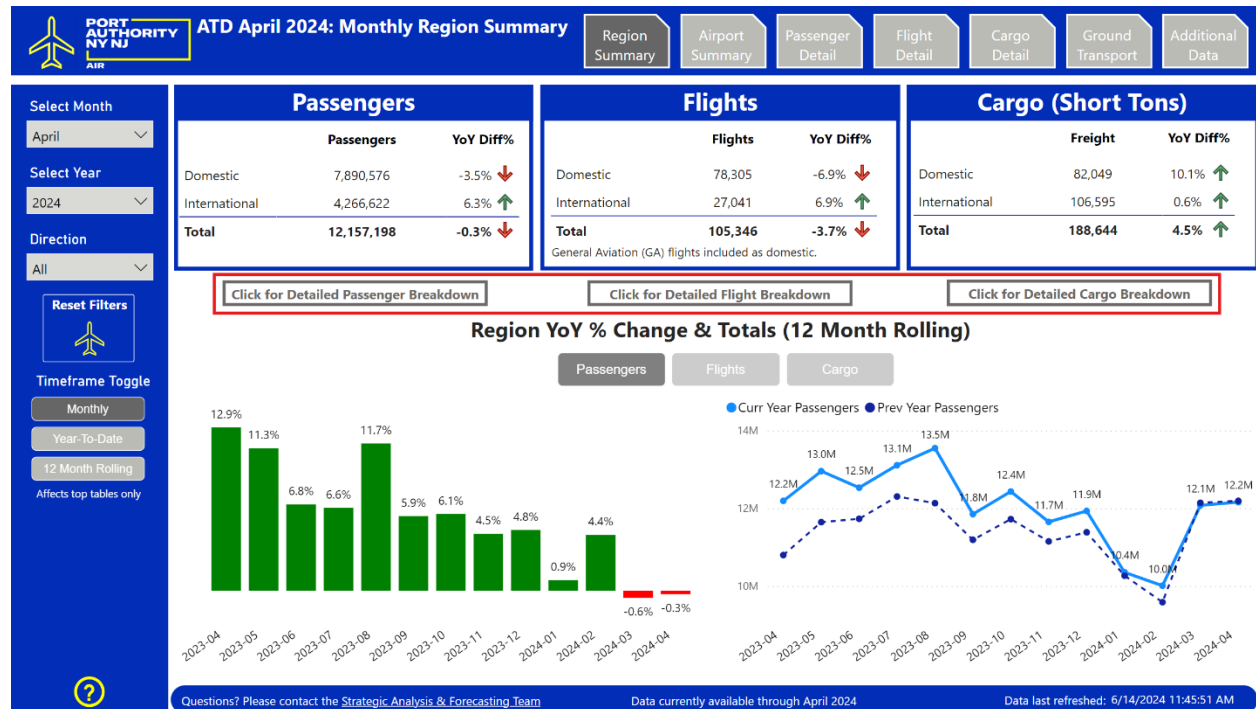
[Click here to download Airport Traffic Dashboard \(ATD\) dataset](#)

NAVIGATION

Users can click through the individual tabs located at the top right of the dashboard interface to navigate between the different pages of the dashboard.

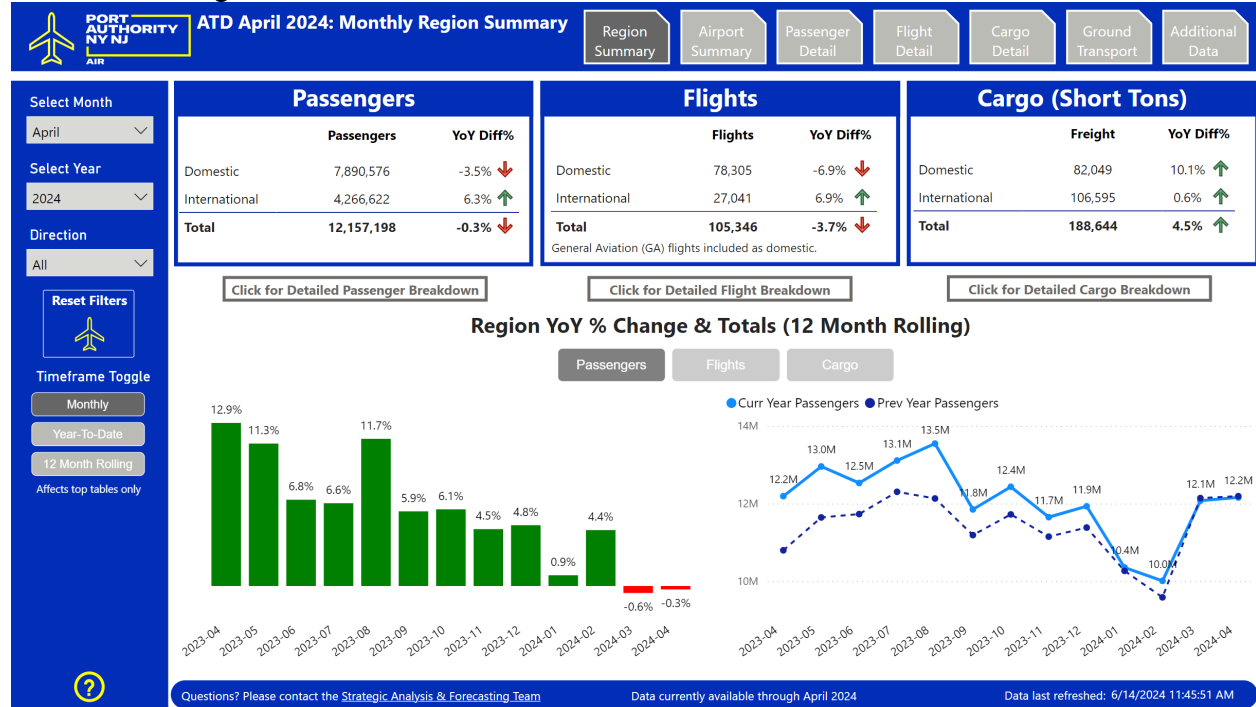


Users also have the option to navigate to the detail tabs for passenger, flight, and cargo data using the “Click for Detailed Passenger/Flight/Cargo Breakdown” buttons located on the Region Summary tab.

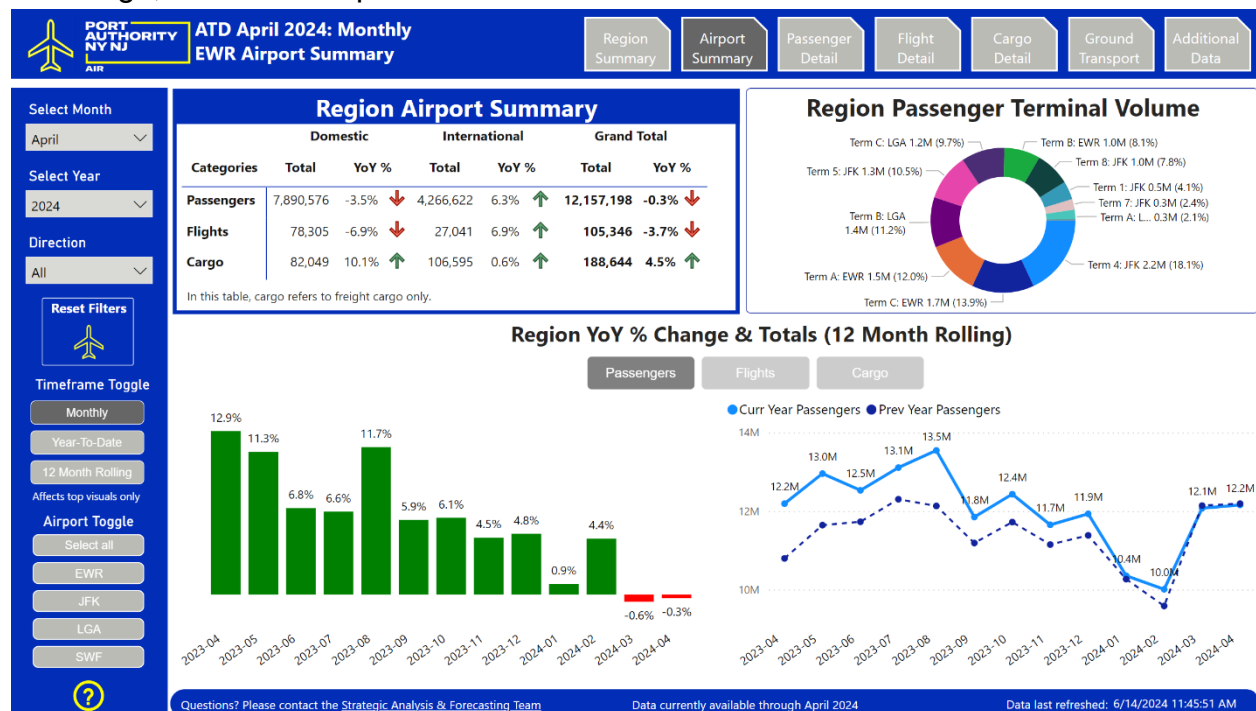


Please see below for a brief summary of the information users can find on each tab of the dashboard.

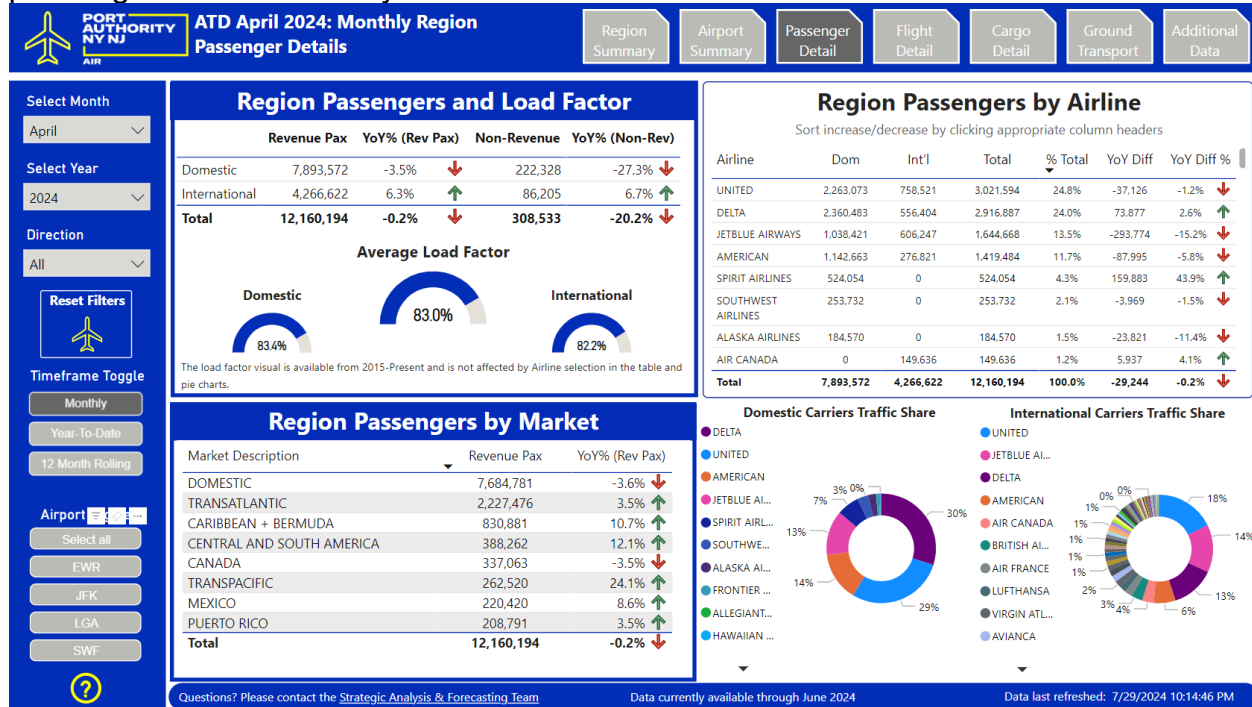
Region Summary: Provides a high-level overview of passengers, flights, and cargo traffic in the region.



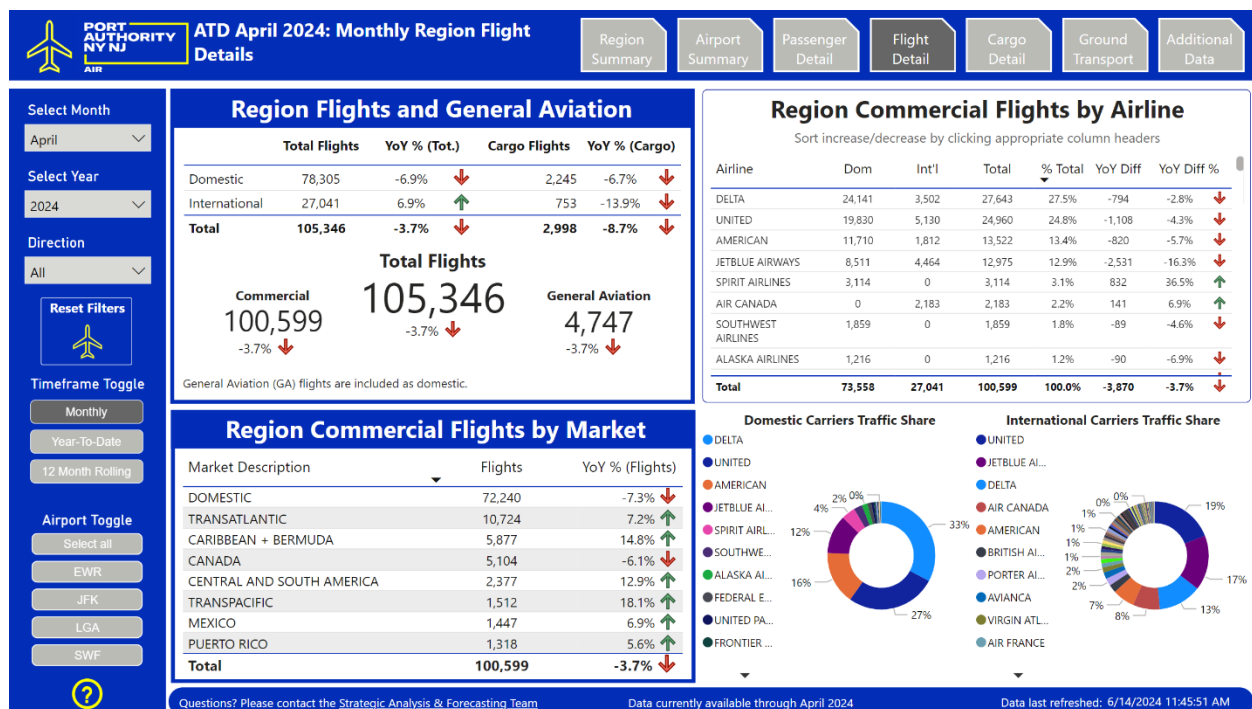
Airport Summary: Provides airport-specific information regarding passengers, flights, and cargo, as well as airport terminal volumes.



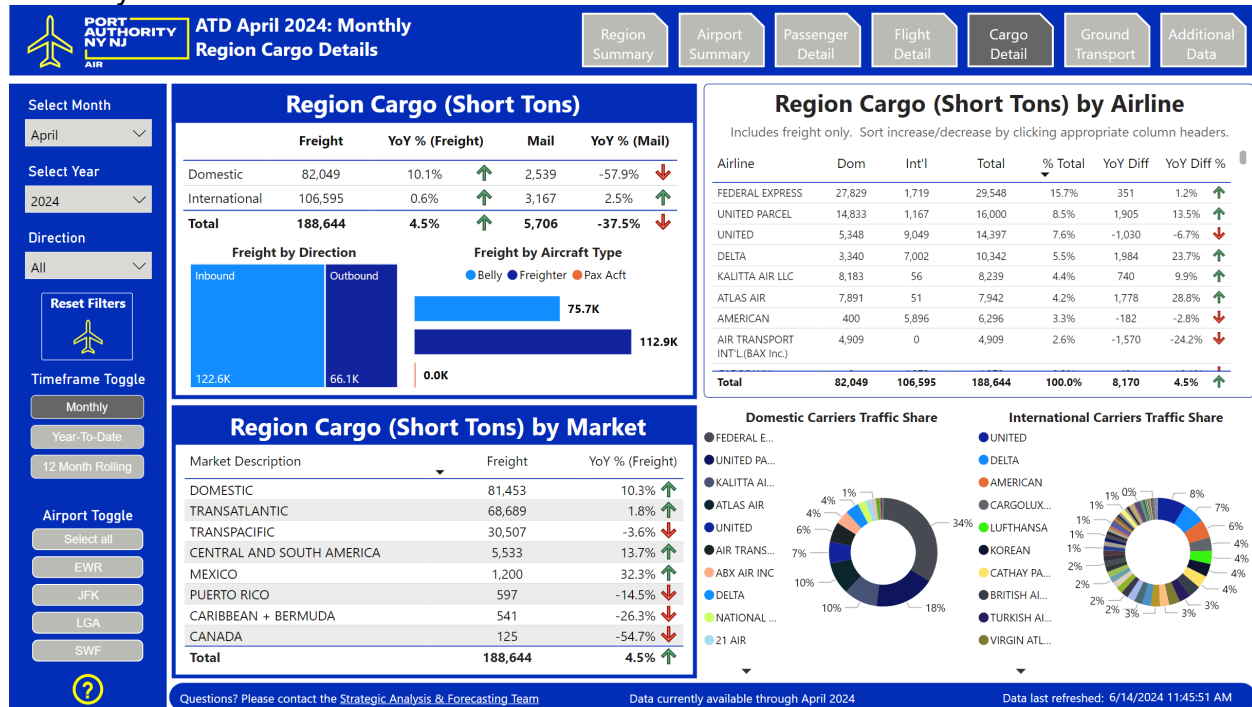
Passenger Detail: Provides a detailed view of passenger information including: passengers by type (revenue vs. non-revenue) and market, passengers by load factor (average and by market), passengers by airline, passengers by destination, and carrier passenger market share by market.



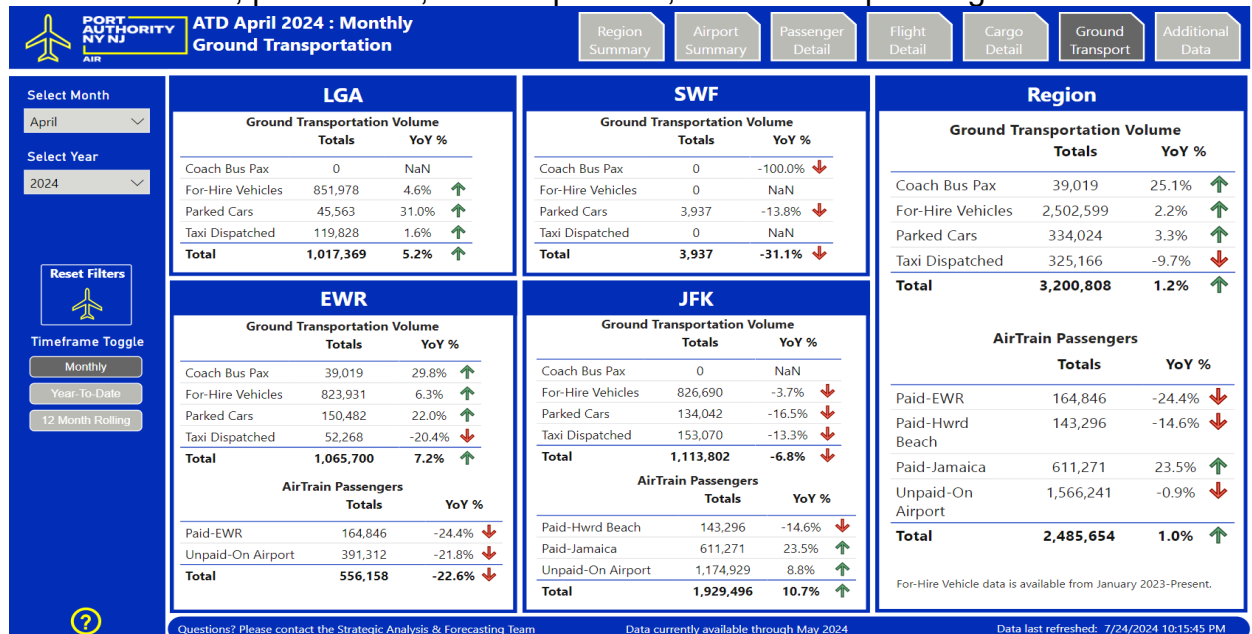
Flight Detail: Provides a detailed view of flight information including: flights by type (commercial, cargo, general aviation) and by market, flights by airline, commercial flights by destination, and carrier flight market share by market.



Cargo Detail: Provides a detailed view of cargo information including: cargo by type (short-tons and mail) and market, cargo (short-tons) by type (belly, freighter and passenger aircraft), by direction, by airline, by destination, and carrier cargo market share by market.



Ground Transport: Provides ground transportation data for all airports (JFK, EWR, LGA, and SWF) and the region. Ground transportation includes coach bus passengers, for-hire vehicles, parked cars, taxis dispatched, and AirTrain passenger data.

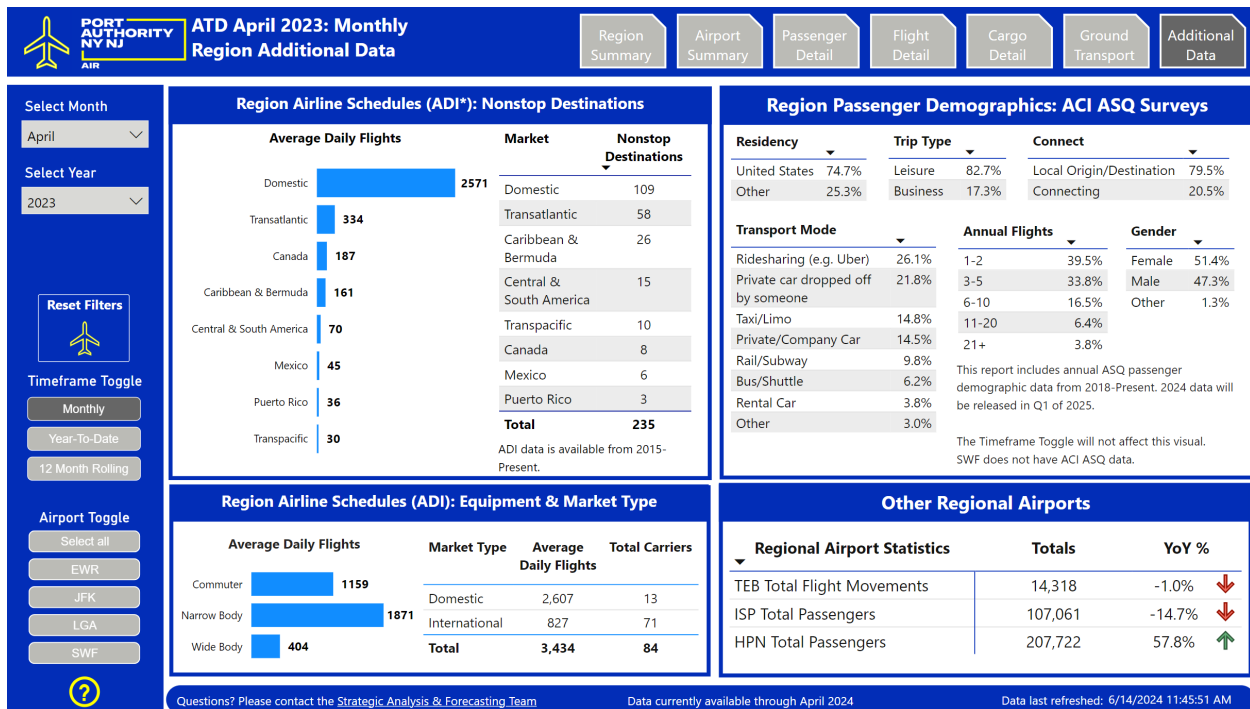


Ground Transport (cont.):

- **AirTrain** data is applicable exclusively to JFK and EWR.
- **For-Hire Vehicle** data is applicable exclusively to JFK, EWR, and LGA.
- **Parked Car** data is applicable to all facilities.
- **Taxi Dispatched** data is applicable exclusively to JFK, EWR, and LGA.

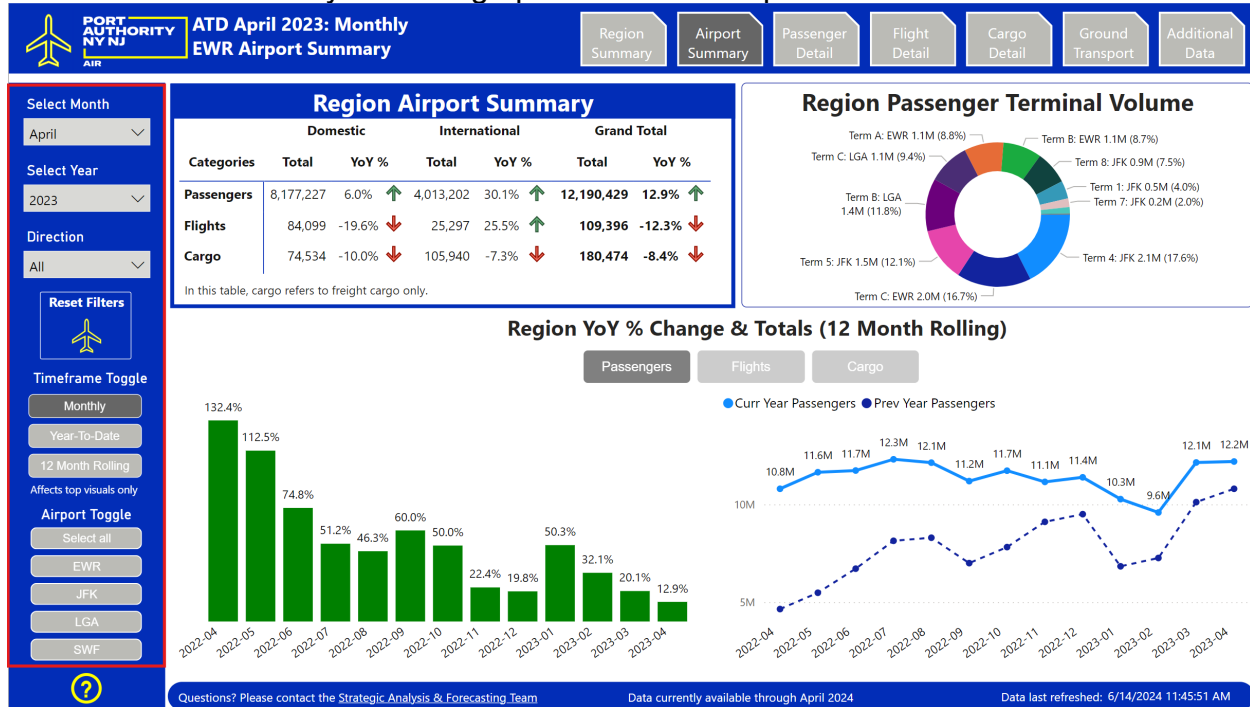
Additional Data: Provides additional information that supplements the data provided in the rest of the dashboard. This data includes nonstop destinations type by daily flights, aircraft type by daily flights, ACI ASQ passenger demographic data, and other regional airport activity.

ACI ASQ Passenger Demographic Data: Data presented in the ATD prior to 2022 will not match with the corresponding Annual Traffic Report (ATR) for 2018-2021, as the weighting methodology has been updated. When combining two or more airports, results are weighted by relative passenger volume numbers.



FILTERING

Users can use a variety of filtering options in order to parse data.



The **Airport Traffic Dashboard** data can be filtered by **Month**, **Year**, **Direction**, **Timeframe**, and **Airport** with the exception of the **Region Summary** and **Ground Transport** tabs.

- The **Region Summary** tab cannot be filtered by **Airport** as it is meant to capture the data from all facilities. If users are interested in seeing the same data broken down by facility, they can refer to the Airport Summary tab.
- The **Ground Transport** tab cannot be filtered by **Airport**. Individual airport and regional data is already provided on the dashboard interface. Users should refer to the data listed under each respective airport table.

Please note that all available filtering options are single-select and are synchronized across all tabs of the dashboard. This means that when users filter data on one tab of the dashboard, the filters will apply to all other tabs of the dashboard.

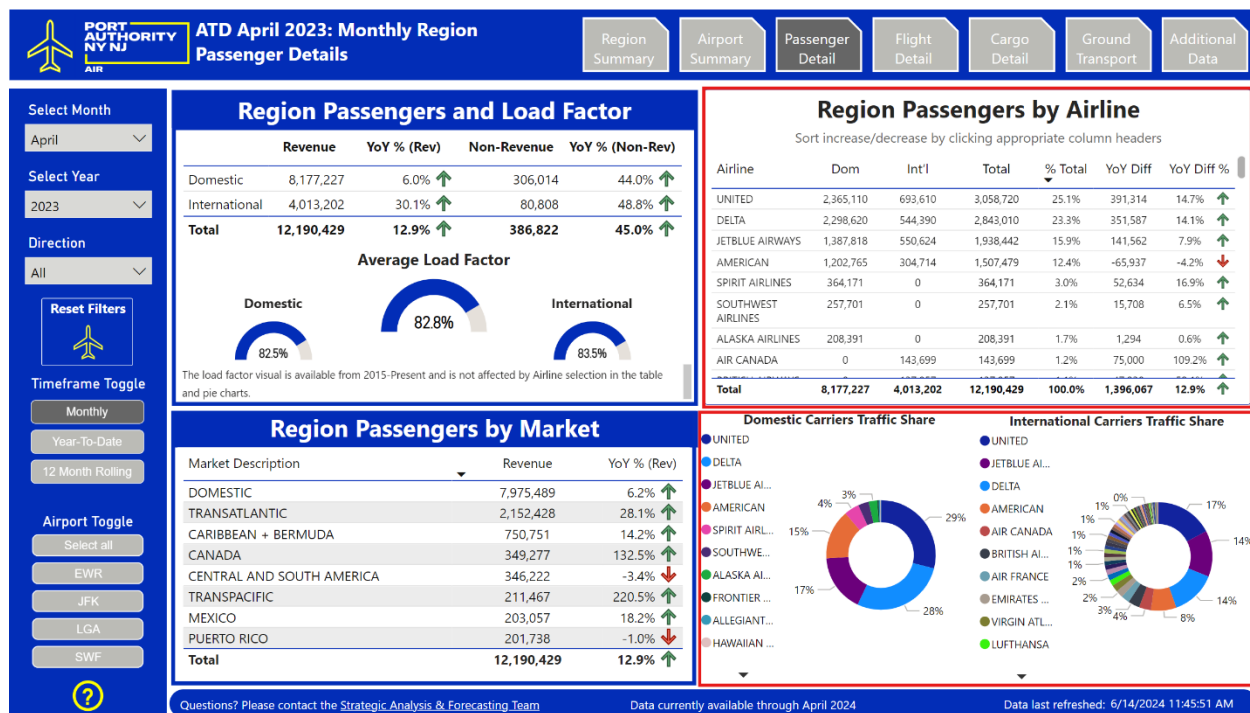
Users can use the **Reset Filters** button located on the left side of the dashboard interface to revert to the default view. The default view shows the latest year/month of available data.

SORTING

In addition to being able to filter data, users also have the option to sort select visuals on the dashboard.

There are two types of visuals that users can sort.

- **Table Visual:** Users can sort table data by selecting specific columns. Users can also click on the same column selection in order to change the sort function from ascending to descending and vice versa.
- **Pie Chart Visual:** On the Passenger/Flight/Cargo Detail tabs, the legend is organized in descending order. Use the up and down arrows at both ends of the legend to see more carriers.



The sorting option is available on the following visuals:

- **Passenger Detail:**
 - Passengers by Airline
 - Carriers by Passenger Market Share and Market
- **Flight Detail:**
 - Flights by Airline
 - Carriers by Flight Market Share and Market
- **Cargo Detail:**
 - Cargo by Airline
 - Carriers by Cargo Market Share and Market

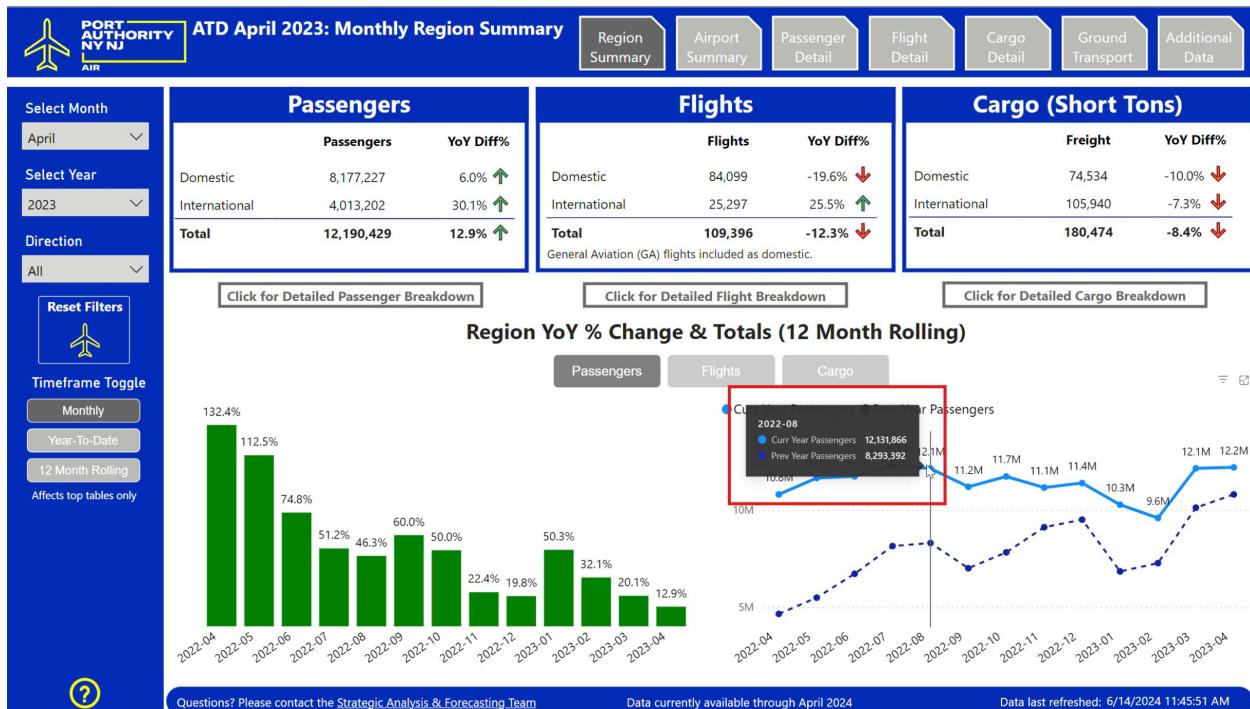
- **Selecting Airlines:** Users can click and select a specific airline from the table and pie chart visuals on each detail tab. By selecting the airline, users will filter the data for all the visuals on the page by that specific airline. Note that the Load Factor visual on the Passenger Detail page will not be affected by airline selection.

TOOLTIP

Tooltip allows users to see additional information not explicitly included in a given data visualization by hovering over the visualization with the cursor.

The tooltip function is available on the following visuals:

- **Region Summary:**
 - Region YoY percentage change & totals visuals
- **Airport Summary:**
 - Airport YoY percentage change & totals visuals
- **Passenger Detail:**
 - Carriers by passenger market share and market
- **Flight Detail:**
 - Carriers by flight market share and market
- **Cargo Detail:**
 - Carriers by cargo market share and market



GLOSSARY OF TERMS

Aircraft Type	
Term	Definition
Commuter	Regional jets with fewer than 76 seats. (Examples: CRJ900, Embraer E190)
Narrow Body	One-aisle aircraft that can seat up to 6 passenger seats across. (Examples: Airbus A320, Boeing 737)
Wide Body	Twin-aisle aircraft that can seat up to 10 passengers across. (Examples: Airbus A380, Boeing 777)

Airlines	
Term	Definition
Marketing Airline	Airline that marketed and sold the ticket from the origin to the destination. All airline data in the Airport Traffic Dashboard refers to the Marketing Airline.

Airports	
Term	Definition
JFK	John F. Kennedy International Airport
EWR	Newark Liberty International Airport
LGA	LaGuardia Airport
SWF	New York Stewart International Airport

Cargo	
Term	Definition
Freight Cargo	Commercial goods transported by cargo aircraft (excluding Mail). Measured in short tons.
Mail Cargo	Mail transported by cargo aircraft. Measured in short tons.
Belly Cargo	Goods transported in the belly of a passenger aircraft. Measured in short tons.
Passenger Aircraft Cargo	Goods transported in the belly and body of a passenger aircraft. Measured in short tons.

Flights	
Term	Definition
ADI (Airline Data Inc) Flight Schedule	Commercial airline flight schedule data provided by Airline Data Inc.
Commercial Flights	Scheduled flights operated by a commercial airline.

General Aviation (GA)	Military, private operations and air-taxi flights which are not scheduled and not within a terminal.
Itinerants	Flight(s) operated by a carrier that does not regularly serve the region and is not part of a carrier's published schedule.
Nonstop Flights	Flights that do not have any intermediary stops and go directly from point to point. Data on destinations, unless otherwise stated, only captures non-stop flights.
Total Flights	Unless otherwise stated, this refers to total departing flights, excluding arrivals.

Ground Transportation	
Term	Definition
AirTrain EWR	Airport railway system that connects EWR passengers to terminals, parking lots, hotel shuttle areas, rental car facilities and the metropolitan region's public transportation network at Newark Liberty International Airport Station.
Paid EWR	Passengers who pay to ride AirTrain EWR between the airport and Newark Liberty International Airport Station (aka RailLink Station on the Northeast Corridor rail line).
AirTrain JFK	Airport railway system that connects JFK passengers to terminals, parking lots, hotel shuttle areas, rental car facilities and metropolitan region's public transportation network at Howard Beach and Jamaica stations.
Paid Howard Beach	Passengers who pay to ride AirTrain JFK between the airport and the Howard Beach terminal.
Paid Jamaica	Passengers who pay to ride AirTrain JFK between the airport and Jamaica terminal.
Unpaid On Airport	Passengers who ride AirTrain JFK or EWR on airport property. On-airport passengers can access terminals, parking lots, hotel shuttle areas, and rental car facilities free of charge.
Coach Bus	Number of passengers using coach bus companies for direct service to and from PANYNJ airports.
For-Hire Vehicles	Number of pick-ups/drop-offs for ride-share app and black car vehicles at PANYNJ airports. The black car data has a reporting lag of a few months. Please note that historical black car data will be updated each month on a six-month rolling basis.
Parked Cars	Number of cars parked on site at PANYNJ airports (excluding employee parking).
Taxi Dispatched	Number of taxis dispatched from taxi holding lots located on site at PANYNJ airports. This data does not include drop-offs.

Markets	
Term	Definition
Canada	Canada
Caribbean + Bermuda	Caribbean and Bermuda, excluding U.S. territories
Central and South America	Central America, South America
Domestic	Continental U.S., Alaska, Hawaii
Mexico	Mexico
Puerto Rico	Puerto Rico, U.S. Virgin Islands, other U.S. territories
Transatlantic	Europe, Middle East, Africa, Indian Subcontinent
Transpacific	Pacific Rim including East Asia, Southeast Asia and Australia

Passengers	
Term	Definition
Load Factor	Total passengers divided by total capacity, indicating how full the aircraft is.
Non-Revenue Passenger	An airline employee or their certified friends and family flying on a deeply discounted airline ticket. It can also include infants or “lap” children who do not have a reserved seat if the airline includes them at all. Non-revenue tickets generate no income for the airline and are subject to availability.
Revenue Passenger	A passenger who has paid for a ticket, including those flying on “frequent flyer” awards. This is typically a sum of all passengers from scheduled, charter, and in-transit flights. All data labeled as “passenger” data is referring to revenue passengers unless otherwise stated.

Miscellaneous	
Term	Definition
ACI ASQ Data (ACI – Airports Council International) (ASQ – Airport Service Quality)	Passenger demographic data collected from quarterly customer experience survey developed and conducted by Airport Council International.
Direction	Inbound/arrival or outbound/departure travel.
Market	Domestic or International.
Region	Includes all PANYNJ facilities providing commercial flights (EWR, JFK, LGA, and SWF).