




# Global-Leading **Aviation Data** Intelligence & Analytics

January 2025

 [business@variflight.com](mailto:business@variflight.com)

 <https://www.variflight.com>

Empowering **Operational**  
**Efficiency** and **Revenue**  
**Growth** with Aviation Intelligence  
and Analytics



# Unleashing the Power of Aviation Data

---

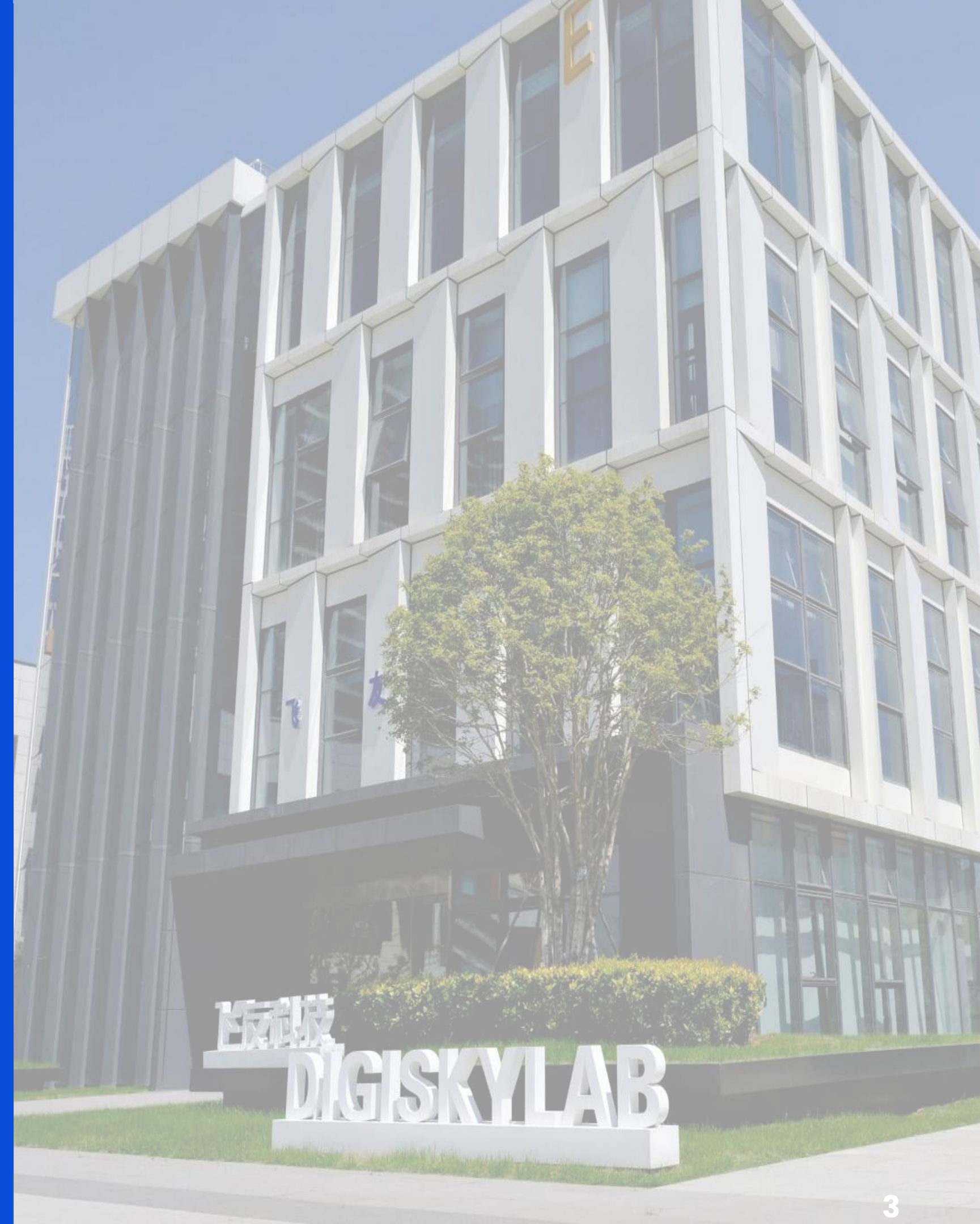


## Build Data Application Capabilities

Leverage our high-quality aviation data to deliver actionable insights and winning strategies, driving business growth and client success.

## Enhancing Travel Experiences with Data-driven

VariFlight flight data drives innovation in travel, including flight status, in-flight amenities, flight operation data, and more, enhancing the travel experience.



## Air Travel

- Including OTAs, TMC, Travel Tech, Meta Tech, etc.
- Provide real-time flight status and in-flight info updates to your travellers

## Airlines

- Close-knit data partnership
- Overall analytics and consulting services for airlines
- Consistently strengthen passenger services

## Finance

- Including Asset Management, Insurance, and Aircraft Leasing companies
- Contribute to building practical economic models

## Mobility

- Enhance airport transfer efficiency
- Elevate booking experience
- Enrich Over-the-Air programming features

## Air Freight

- Enhance the capability to meet delivery commitments consistently
- Optimize the digitization of shipping management.

## And More

- Airports
- Governments
- Technology companies
- Hotels, etc.

# Partners

AMADEUS

Flight disruptions challenge the travel industry as growing capacity strains complex airline networks. We're proud to partner with VariFlight to deliver advanced schedule monitoring for millions globally.

UBS

VariFlight is one of our most reliable data technology providers, they help us to get an overview outlook in our daily analysis.

CEIC

VariFlight's high quality data sets are quite crucial to supplement our macro economic statistics, it helps us to dive into the alternative research related to the transportation sector.

AVIS

AVIS has been committed to providing users with convenient, comfortable, assured, and safe travel experience. This cooperation with VariFlight upgrades our online airport transfer service as well as improves operation efficiency.

1,000+ partners from 30+ countries & regions

AMADEUS

Trip.com

make my trip

Ctrip

KIWI.COM

eDreams ODIGEO

ixigo

skyscanner

CWT

tiket.com

BOEING

AIRBUS

Lufthansa

SINGAPORE AIRLINES

AirAsia

QATAR AIRWAYS 卡塔尔航空

AIR CHINA

AVIS

DiD

Allianz

HUAWEI

Tencent 腾讯

# About Us

## Leader in Civil Aviation

- A leading provider of aviation data services, delivering rich data info to over
- **300** million passengers worldwide
- Tracking over **97%** of global commercial flights, including more than the last **ten years period** on a global basis, and flexible business cooperation ways

## Understanding Global Service

- Headquartered in China, with subsidiaries in Singapore, Hong Kong, and other locations, it covers the **global** market
- **1,000+** partners from **30+** countries&regions

## Excellent R&D and Tech Capabilities

- A team of over **380** professionals
- With over **20** years of experience in the aviation industry.
- Featuring extensive copyrights, academic publications, and a postdoctoral research station, among other achievements.

## Data Source

**1,000+**

Airlines

**12k+**

Airports

**170K+**

Daily Flight Tracking

**ATC**

Air Traffic Controls

Our global network of ADS-B receivers serves as the primary source for live flight tracking data.

Moreover, the direct interfaces between our data centre and the systems at airports, Air Traffic Controls (ATCs), and airlines ensure the precision and reliability of our data products.

Which aviation **data** from VariFlight can support your analysis and drive business **growth**?

Flight Status Data

Flight Happiness Index

Flight Transfer

Insightful Data Sets

Data Insight & Analyzers

Carbon Emissions

ADS-B Tracking

# Flight Status Data

Streamline your flight booking management flow and boost air travellers experiences with VariFlight Easy-To-Integrate Rich Flight Status Data

- Historical Flight Status
- Real-time Flight Status
- Flight Alerts

Flight Status (All times are in local time)

**SQ321**  
Singapore Airlines

23-Dec-2024 **Arrival**

**LHR** Heathrow **SIN**

Flying Time: 12h28m  
Flying Distance: 10860KM

Scheduled Departure	VariFlight Estimated	Actual Departure	Scheduled Arrival
22:05	22:32	22:31	19:00

Terminal	Check-in Counter	Boarding Gate	Terminal
T2	A	B44	T1

**Flight Details**

Aircraft Type: **Boeing 777-300ER**

Aircraft Age: **17.8 years**

On Schedule

On Schedule

10:52 5G 99

UK8012 VariFlight

Departure It is expected to arrive in: 1hr 45 mins  
Total distance: 5330km Flight Duration: 6hrs 15mins

Singapore Changi T3 Actual Dep **09:58** Local  
Narita T1S VariFlight Estimated Arrival **17:13** Local

Schedule 11/14 09:20 11/14 09:20 Schedule

Check-in Counter	Boarding Gate	Baggage Belt	Arrival Gate
<b>03</b> Economy Class	<b>A12</b>	<b>12</b>	<b>38</b>

**Incoming Flight**

Current flight is today's **First Departure**  
\*The first flight for the plane

**Flight Record** Pro\* Past 30 Days  
Delay: 3% | Cancel: 0%

33m 21m 4m 8m 22m 2m 10m  
early 11/07 11/08 11/09 11/10 11/11 11/12 11/13

```
"FlightNo": "UK8012",  
"FlightCompany": "Vistard",  
"FlightDepcode": "SIN",  
"FlightArrcode": "LAX",  
"AircraftNumber": "9VSWI",  
"FlightDeptimePlanDate": "2023-11-2",  
"FlightArrtimePlanDate": "2023-11-24",  
"FFlightDeptimePlanDate": "2023-11-",  
"FFlightArrtimePlanDate": "2023-11-",  
"FlightDeptimeReddyDate": ""
```

# Flight Happiness Index

What do travelers value beyond airfares and schedules?

Paving the way for comfortable flight experience .Travel comfortableness is becoming a pivotal criterion and a key booking revenue growth driver for airlines and online travel platforms.



## In-Flight Amenity Display

Seat Layout, Seat Pitch , Seat Angel, Legroom, IFE, Power Supply, Wi-Fi, etc.



## Operational Data

Schedules, Airport Traffic, Weather, On Time Performance, Visa and Luggage Policy, Carbon Emissions, etc.



## More Services

Food, Aircraft Type, Aircraft Age, FHI Comparison Rating, Service Level Rating, etc.

# Flight Transfer

Enables travel businesses to streamline connecting flight management, optimize layovers, enhance customer experiences, and boost ticket sales by providing personalized itineraries for travelers across OTAs, meta search platforms, and other travel tech companies.

## Streamlining **Transfer** for Travelers

**Flex connecting plan**



**Multiple**

**MCT (minimum connection time) criteria**



**No airlines or alliance restrictions**

**Connection segments sync with real-time flight status**

# ADS-B

## Real-time Aircraft Tracking

VariFlight's global ADS-B network tracks equipped aircraft, providing data to air transport partners to enhance operational efficiency and flight safety.

- Basic information of aircraft
- Flight tracking details

The screenshot displays the VariFlight ADS-B tracking interface. On the left, a detailed view for flight HX234 is shown, including the aircraft image, route from HKG to PVG, and a height and speed graph. The main area features a map of China with a flight path highlighted. On the right, a panel provides aircraft and flight information.

Aircraft information	
REG	Region
BLPI	HK
Age	Aircraft type
11.9 Years	Airbus A320-214

Flight information	
Update time	Longitude
2024/12/16 15:17	121.80
Latitude	Altitude
31.14	-
Ground speed	Vertical speed
22.22 km/h	-3.58 m/s
Azimuth	Transponder Code
73 °	

The screenshot shows the VariFlight Airplane Gallery website. The header includes navigation tabs like Home, Track data, My receiver, Share your data, Contribution, Airplane gallery (selected), My profile, and My contract. The main content area features a grid of aircraft photos and a search bar.

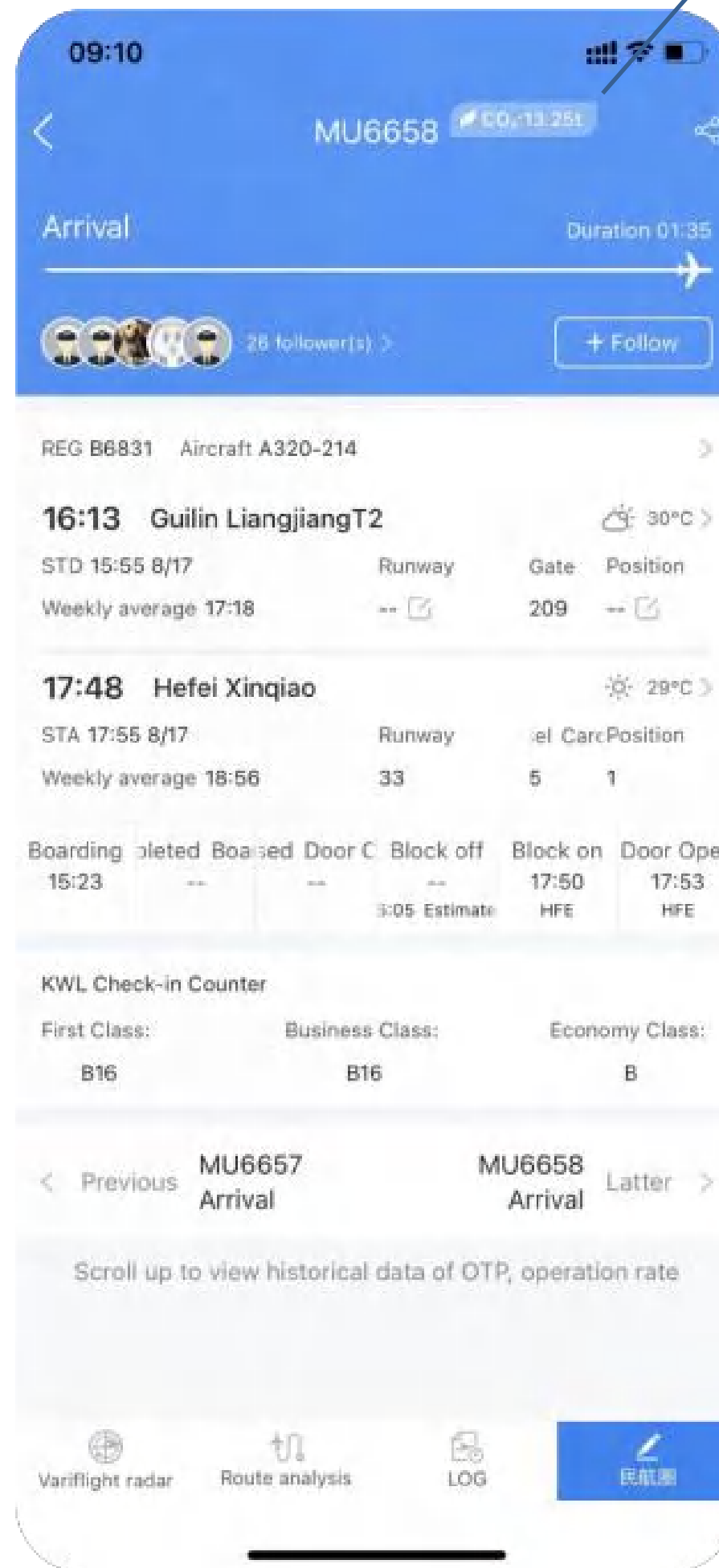
VariFlight Airplane Gallery  
Leading airplane gallery in China

Search a flight by REG, type

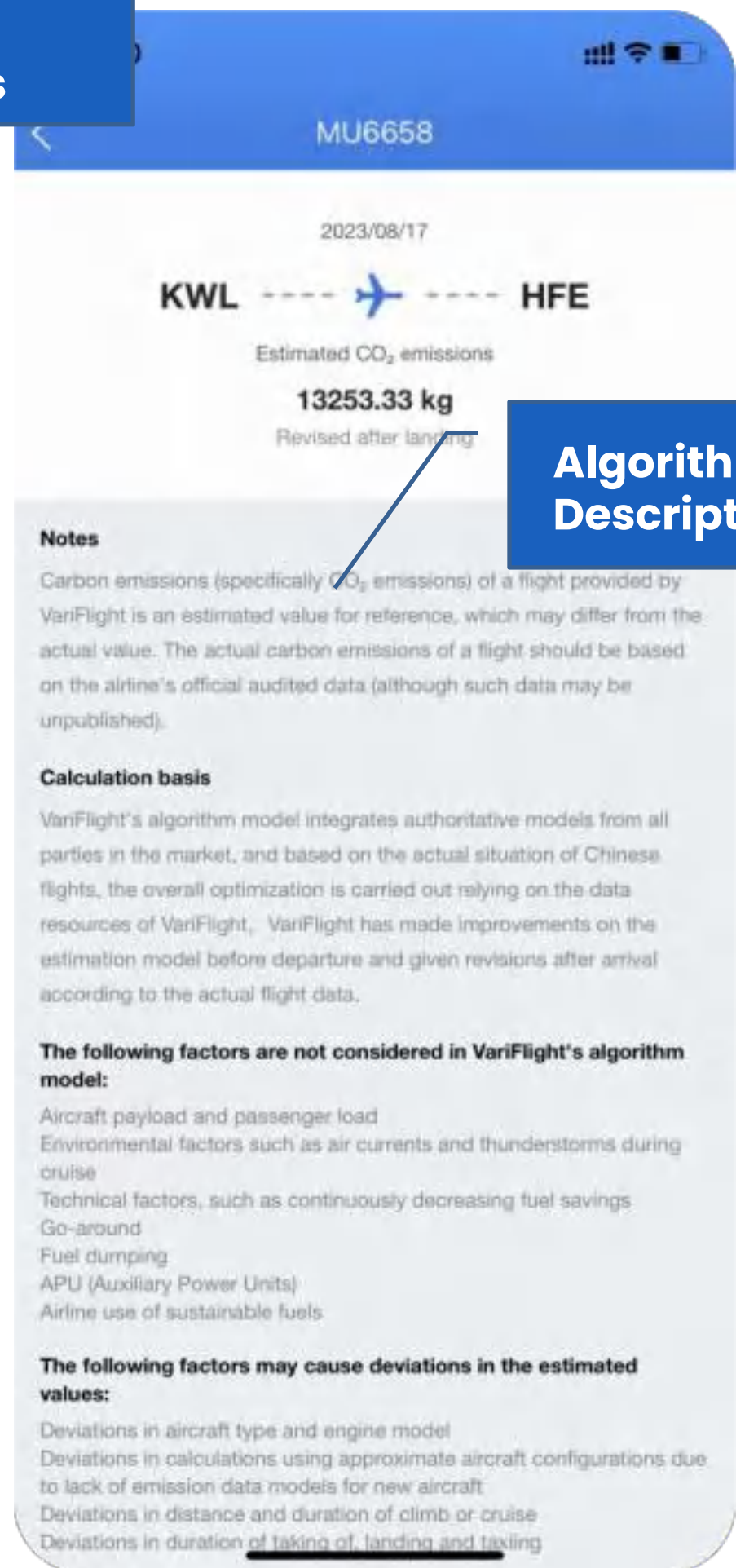
# Carbon Emission

- Accurate carbon footprint monitoring using VariFlight proprietary algorithm.
- Precise carbon benchmarks and offsetting solutions.
- ICAO and EEA compliant – promoting sustainable aviation practices.

“Join us in the fight against climate change with our carbon emission initiatives!”



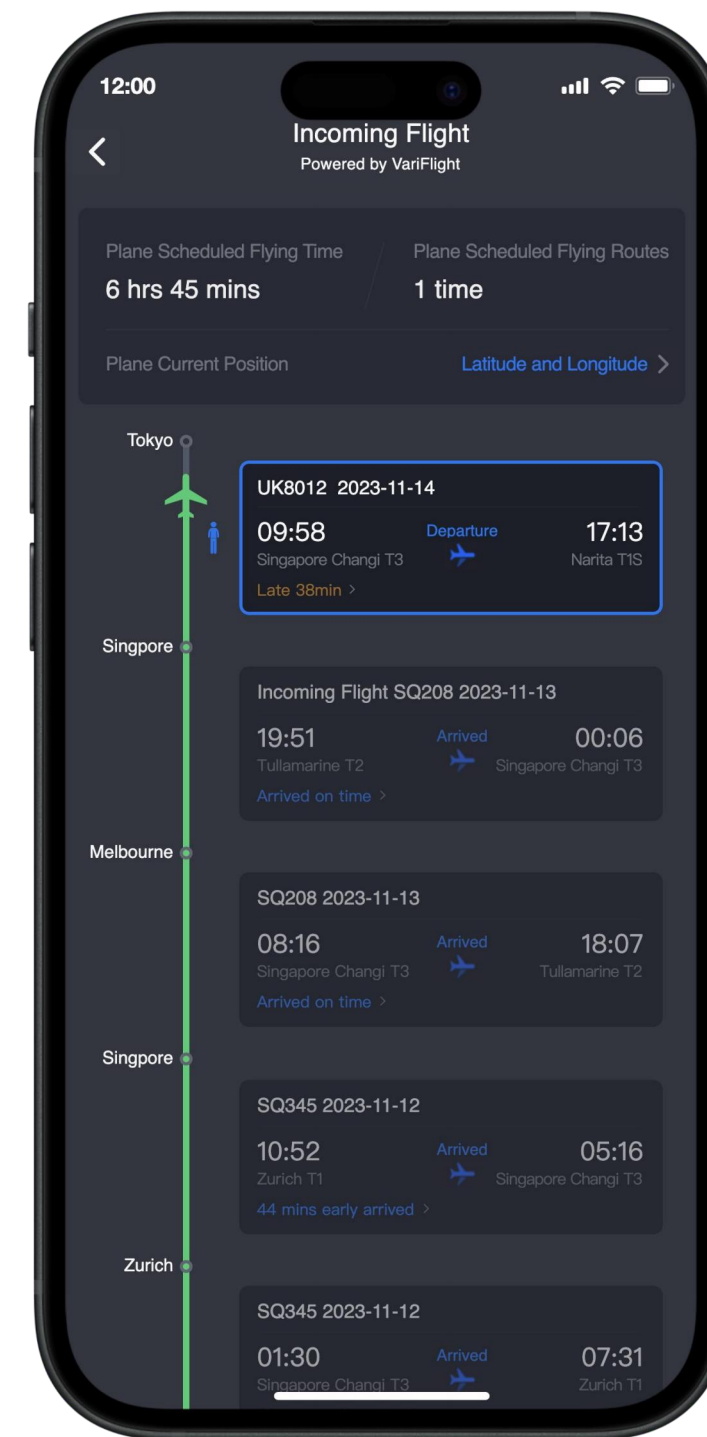
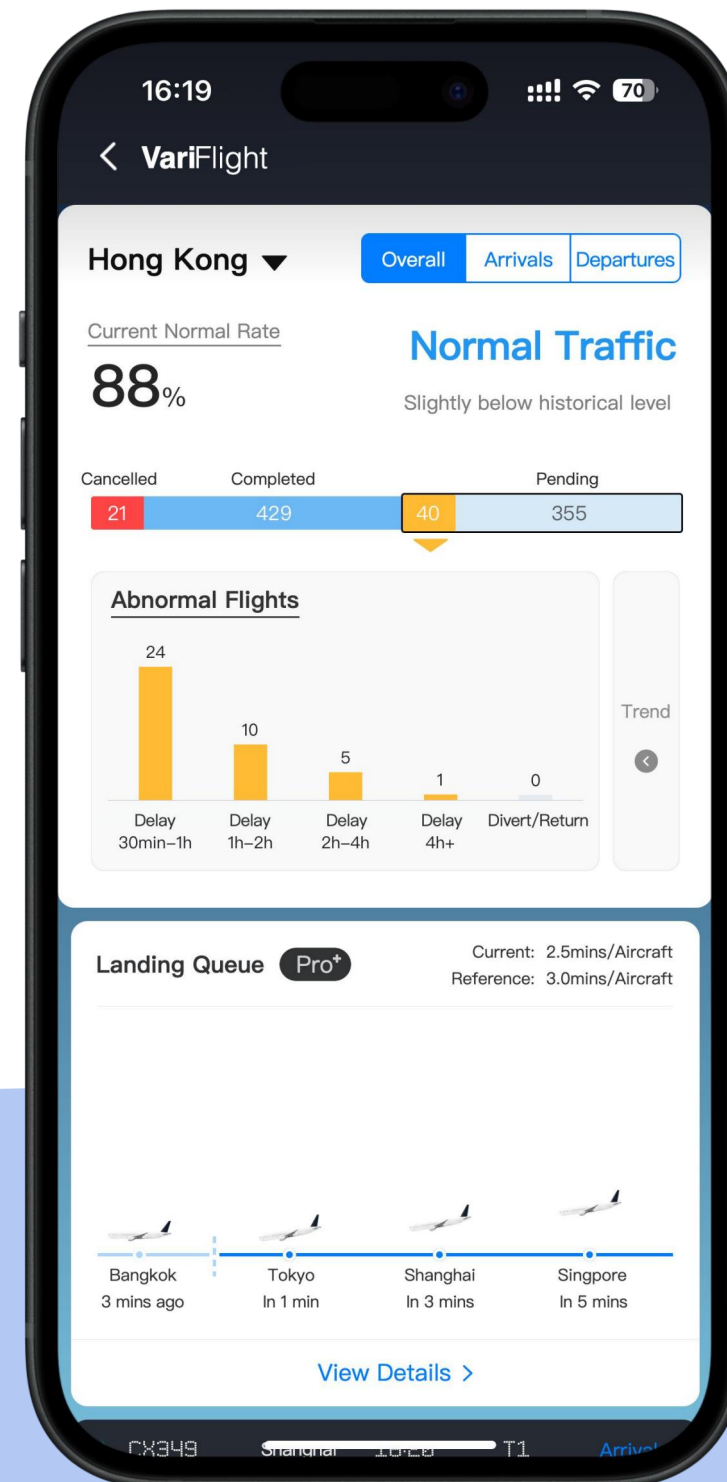
Estimated Carbon Emissions



Algorithm Description

# Insightful Data Sets

- Flight delay predictions
- Historical flight data analysis
- In-coming flight status
- Airport delay index
- On-time performance analysis
- Airport weather, etc.



### Capacity Analytics

Route Capacity  
Airport Capacity Route  
Capacity Trends  
Cargo Capacity, etc.

### On-time Performance Analytics

Airline On-time Arrival  
Performance, Airport On-time  
Departure Performance  
Other Historical Reports, etc.

### Aircraft Analytics

Aircraft Type, Age,  
Movements, Utilization  
Aircraft On Ground  
Tail nums Engines  
Amenity configurations, etc.

### Traffic Analytics

Estimated Pax Traffic  
Passenger Load Factor  
Single Flight Traffic Analytics  
Routes Traffic Projection  
Airlines Traffic Projection, etc.

### Revenue Analytics

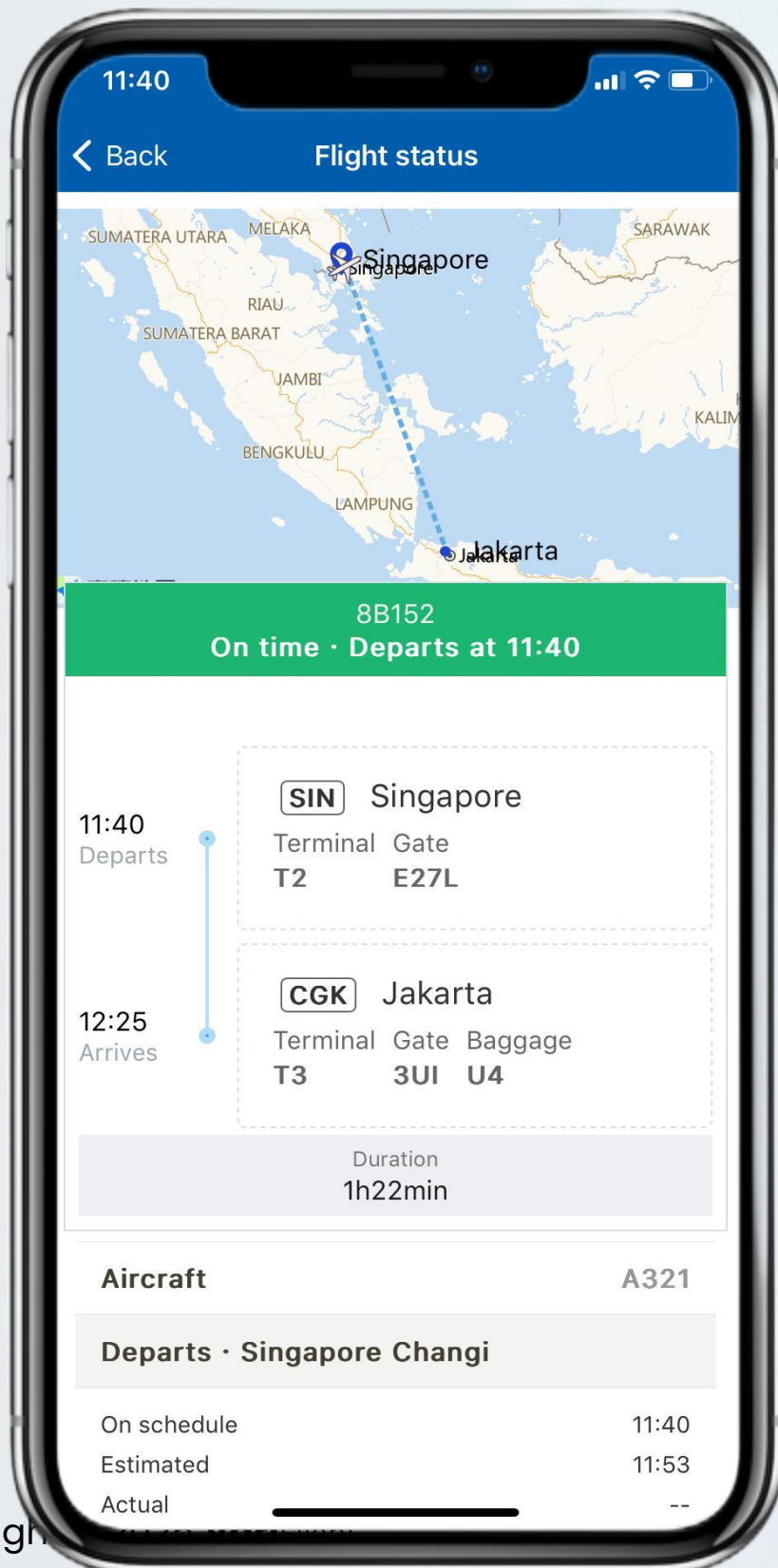
Average Fares  
Revenue Passenger Kilometers  
Certain Routes Turnover  
Analytics, etc.

### Flight Analytics

Flight Amounts  
Scheduled Flights  
Canceled Flights  
Flight Completion Rate etc.

# USE CASE USE CASE

# Flight Status Data



Flight Status  
Real-time  
Updates On Mobile

**eDreams seamlessly integrates VariFlight flight status data into its travel services.**

By simply entering the flight number, eDreams users can effortlessly access real-time updates on their flight status, ensuring a smooth and stress free air travel experience.

VariFlight offers easy access to detailed information on over 97% of global commercial flights.

# Flight Happiness Index

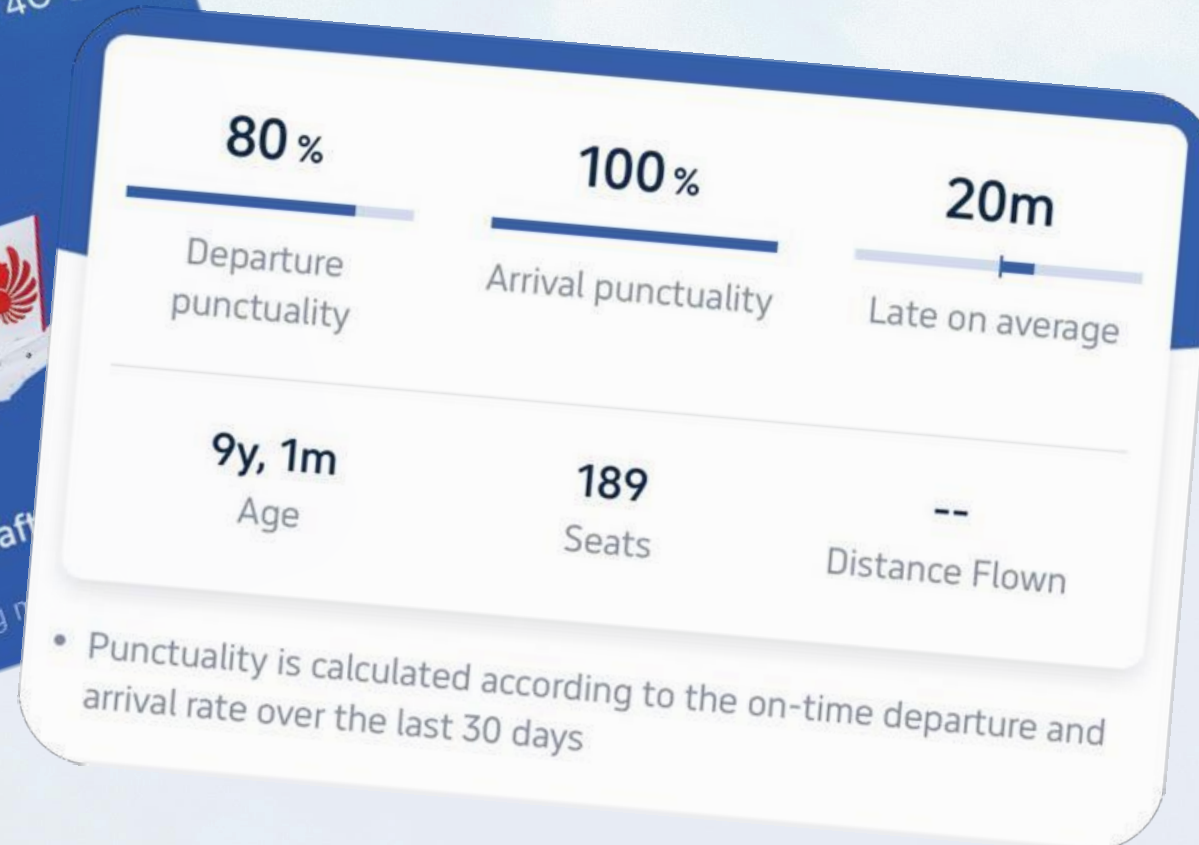
Trip.com

VariFlight®

✓ Easy to integrate

✓ Helpful travel guides

✓ Boost booking conversion rate



### Economy

- None
- Inflight entertainment is unavailable
- Wi-Fi is unavailable
- No power outlets are available

\*This information is for reference only and may vary from the actual flight experience

### Seat Information

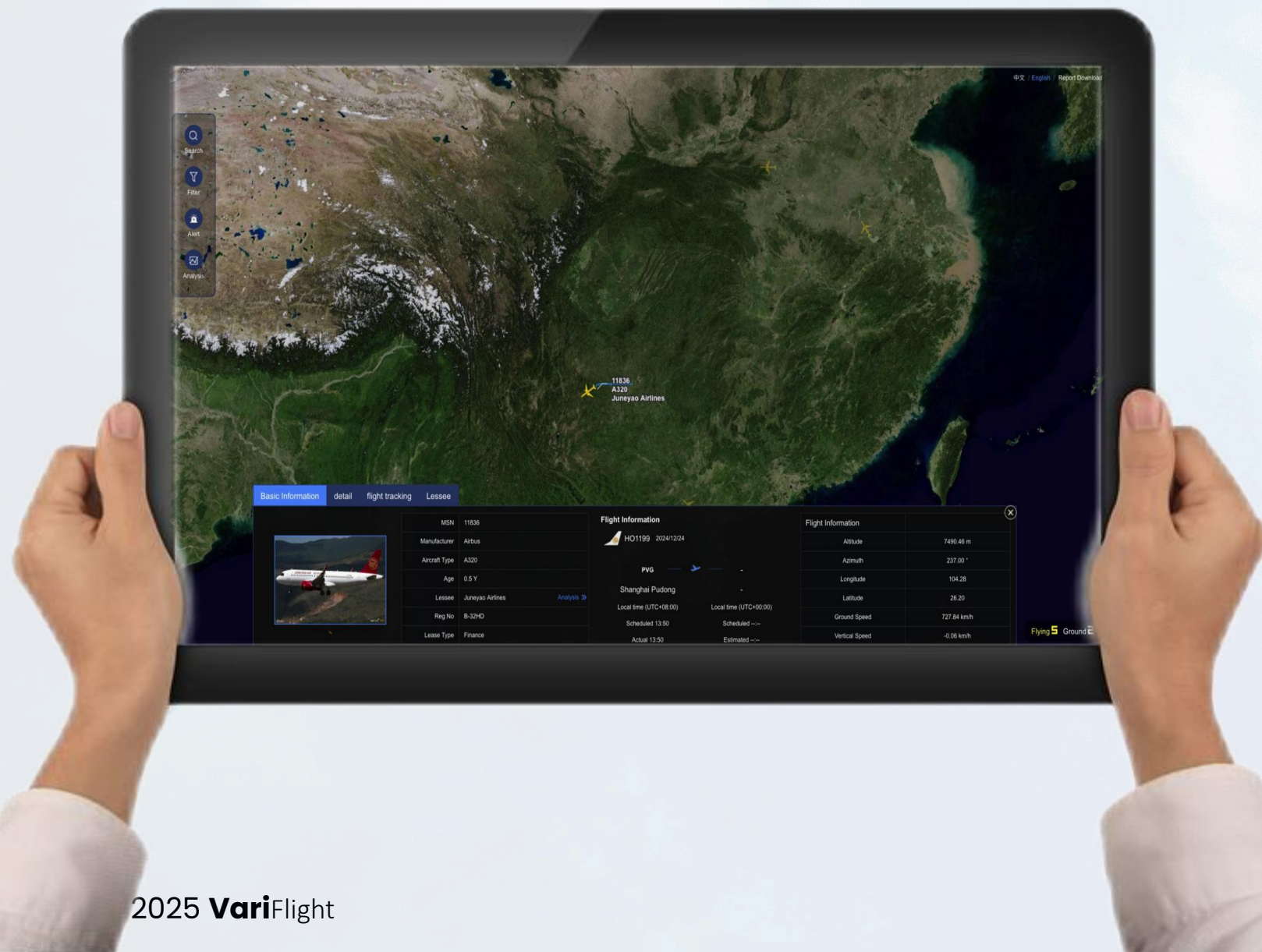
Comparison data is taken by comparing seats with others on the same flight route and in the same class

- 79 cm  
More legroom than on 83% of flights
- 43 cm  
Seat width better than on 83% of flights
- 90°  
Reclining Angle

3-3  
Seat Layout Example

- Aircraft Leasing
- Civil Aviation
- National Defense

**Analyze, evaluate, and control risks of your aircraft assets in real-time through VariFlight integrated monitoring system and aviation data solutions.**



- **Keep an eye on your aircraft assets**

Our global ADS-B network empowers lessors with 24/7 fleet monitoring and detailed operational insights for dynamic risk management.

- **Manage your worldwide fleets visually**

Effortlessly manage global fleets with a tailored dashboard, gaining daily operational insights unavailable from operators.



# Global-Leading **Aviation Data** Intelligence & Analytics

Let's Connect



business@variflight.com



<https://www.variflight.com>