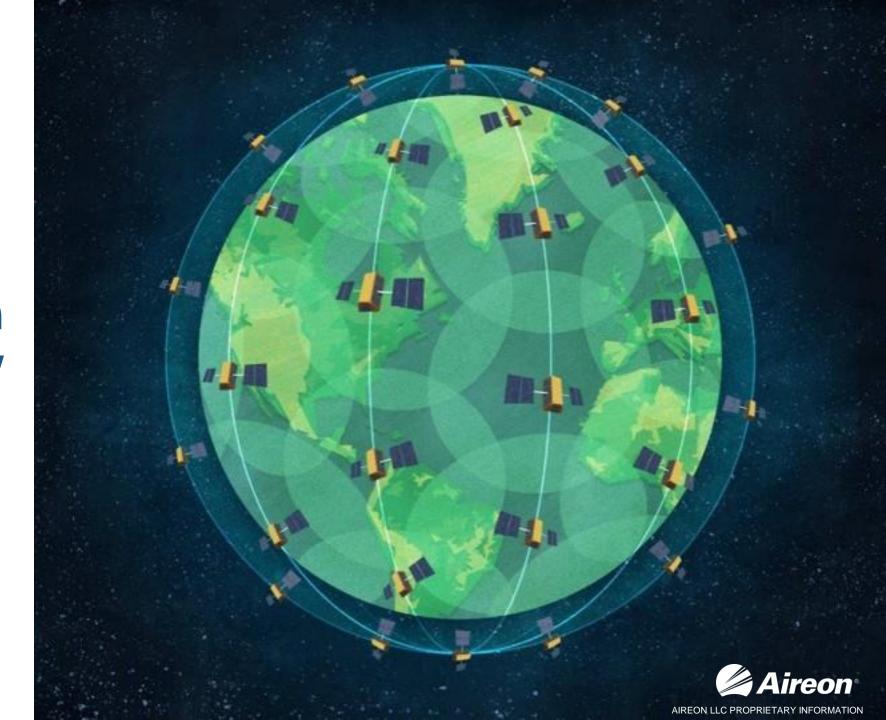




A Safer, More Efficient Airspace with Space-Based ADS-B Surveillance all over the globe

 Michele Carandente, Deputy VP, Air Traffic Services

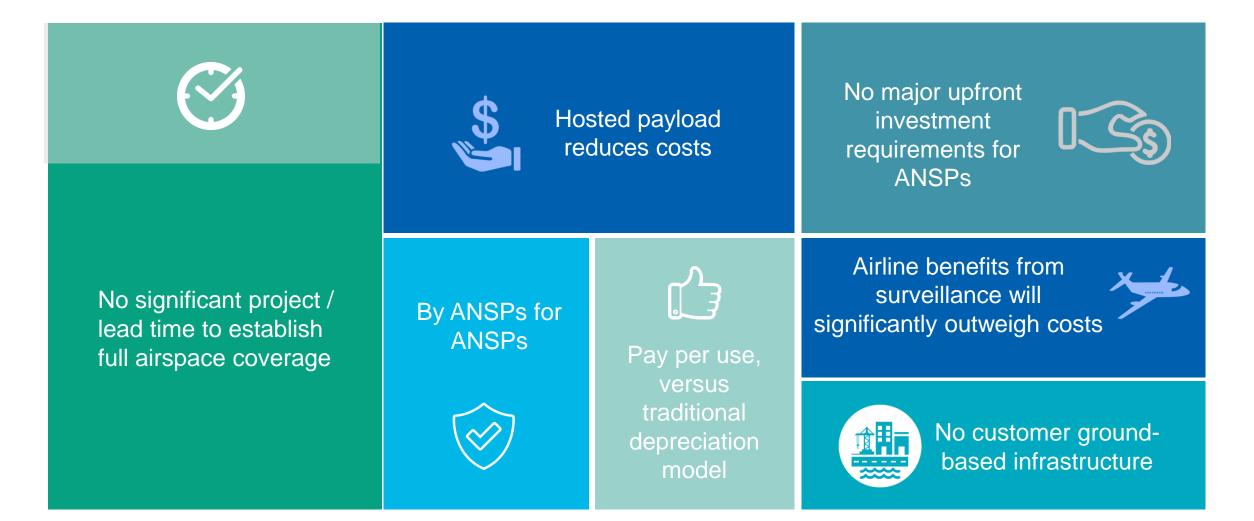
Aireon Overview



A Quick Aireon Overview



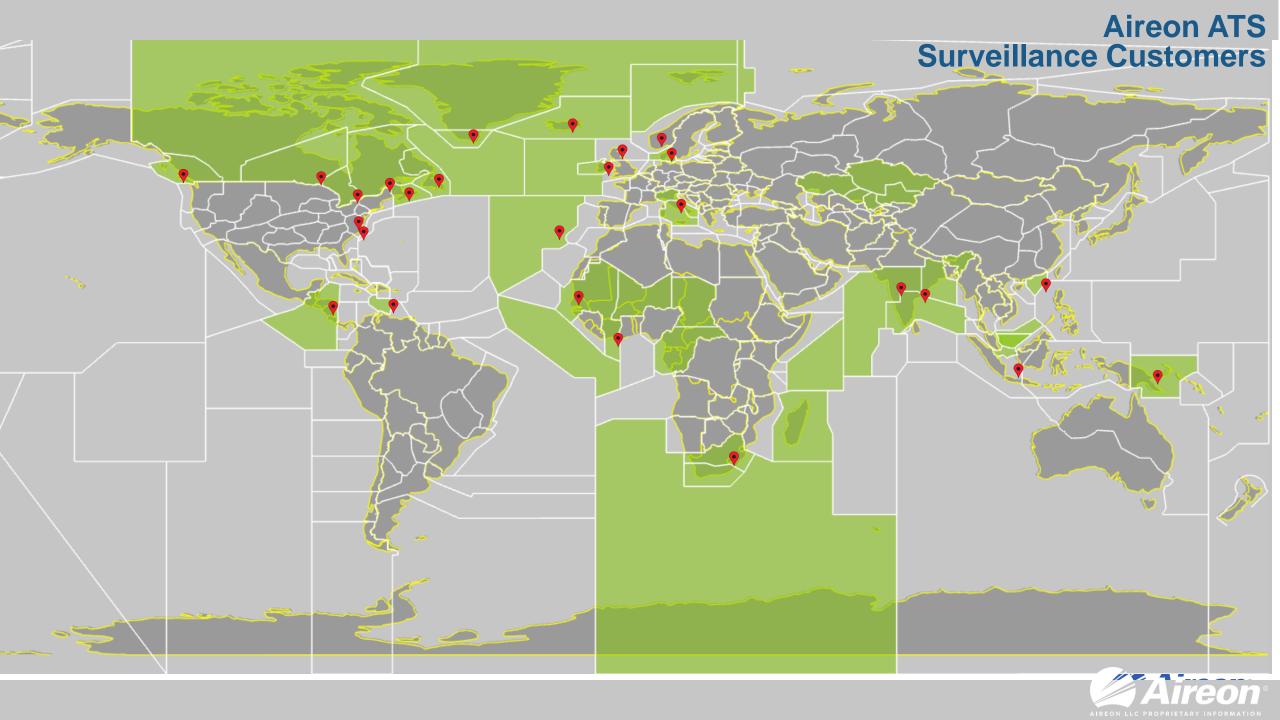
Aireon: An Innovative Business Model for ATS Surveillance

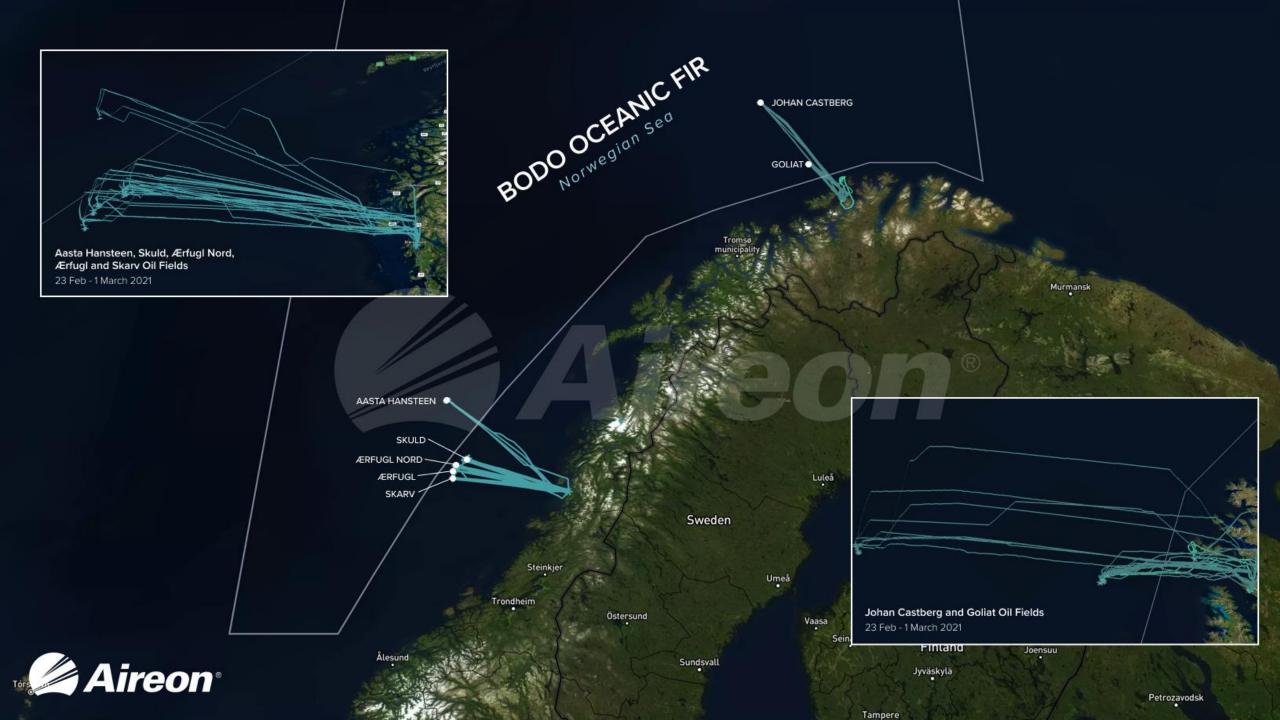




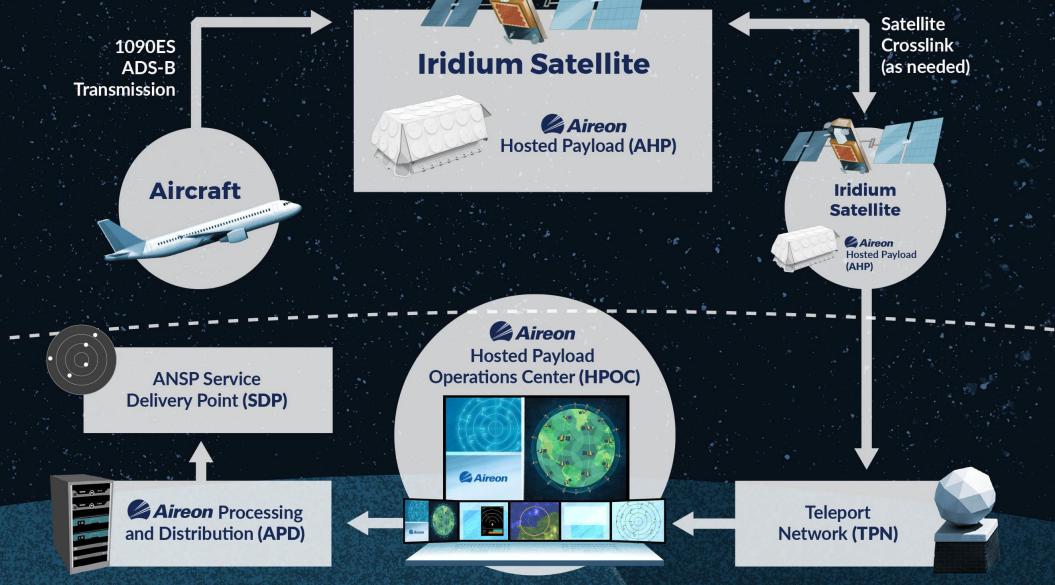
Global, Pole-to-Pole Coverage



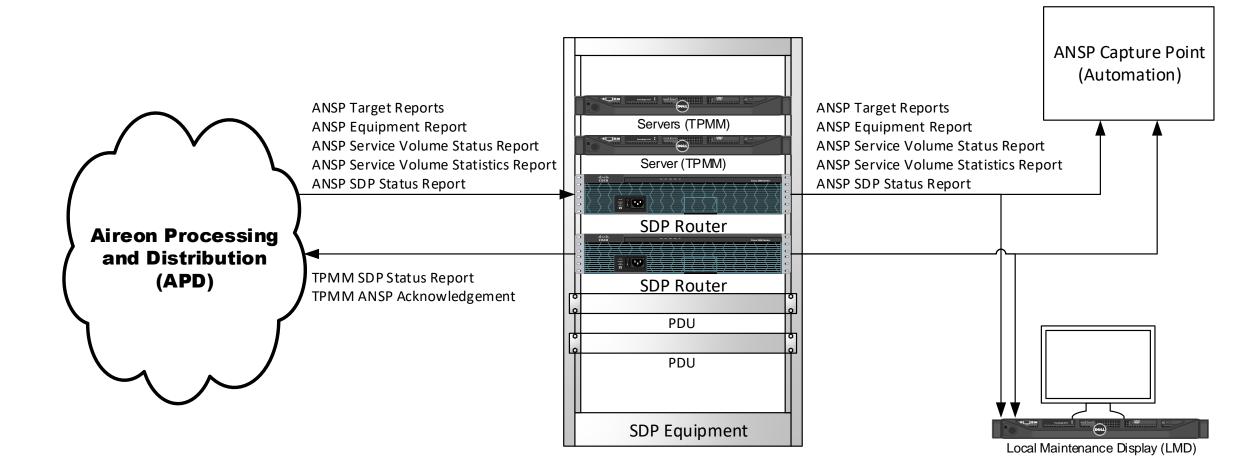




How Aireon Works



Typical SDP Architecture

















Data Designed for ATFM			•
Real-Time Position Data Stream	•		•
Includes Additional Contextual Data	•	•	
Historical Data Available		•	
Data Filtering	Global, Aircraft Tail Numbers, OR Area of Interest	Aircraft Tail Numbers OR Area of Interest	Proximity to Area of Responsibility (AoR) or Flight Information Region (FIR)
Standard Data Feeds	Aircraft Tracking, Airport/ Airspace Analysis		
Tailored Data Feed	•		•
Customizable Reports		•	
Coverage Area	Global	Global	Global
Update Rate	Customizable, 4s, 8s, 1 min, 5 min	Daily, Weekly, Monthly	Customizable, up to once per minute
Low Latency Data Source	•		•
AMQP Support	•		•
Compatible with ATFM, SWIM Node, and A-CDM Systems			•
Data Provenance	Aireon's high-fidelity, low-latency surveillance-grade data	Aireon's high-fidelity, low-latency surveillance-grade data	Aireon's high-fidelity, low-latency surveillance-grade data





AireonSTREAM™ Data Coverage and Connection

Data Coverage

- AireonSTREAM data includes all ADS-B equipped aircraft available to the Aireon receivers (i.e.1090 MHz Extended Squitter (1090ES), 125W diverse/ top-mounted antenna)
- AireonSTREAM data is available from the ground to ceiling of FL600, globally
 - 60,000' to 126,000' available for high altitude operations
- Latency from satellite to customer delivery is up to < 5 seconds, 99%

Tailored Subscription

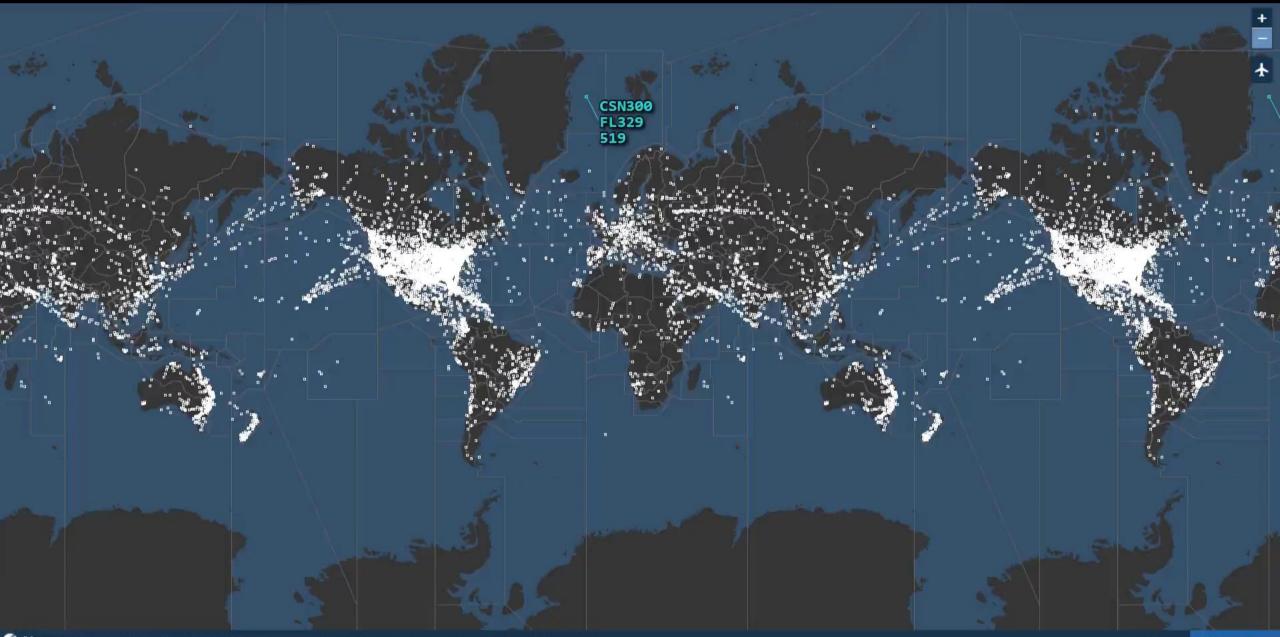
• Feed configurable based on aircraft of interest, area of interest, or by departure/arrival aerodrome





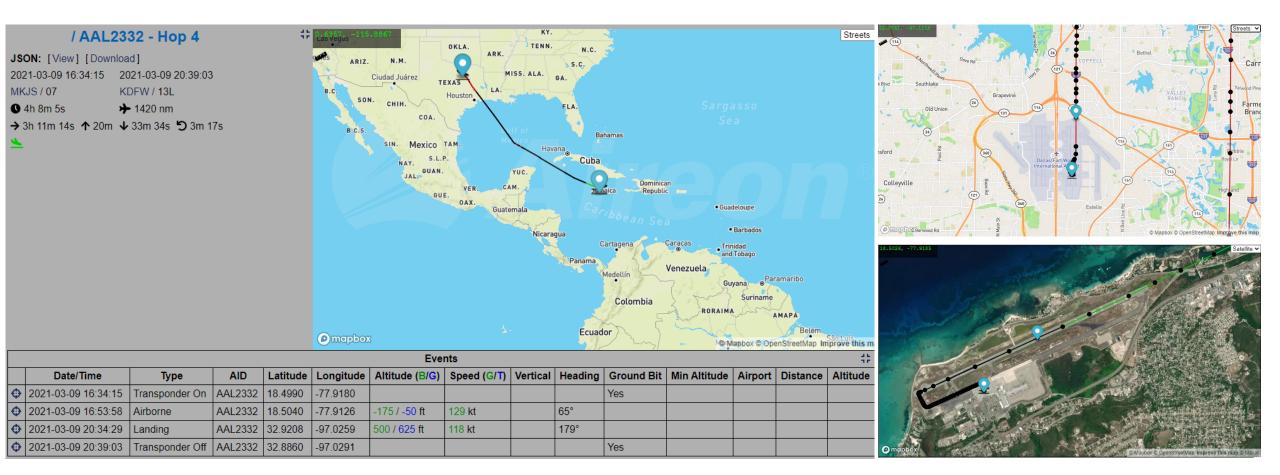






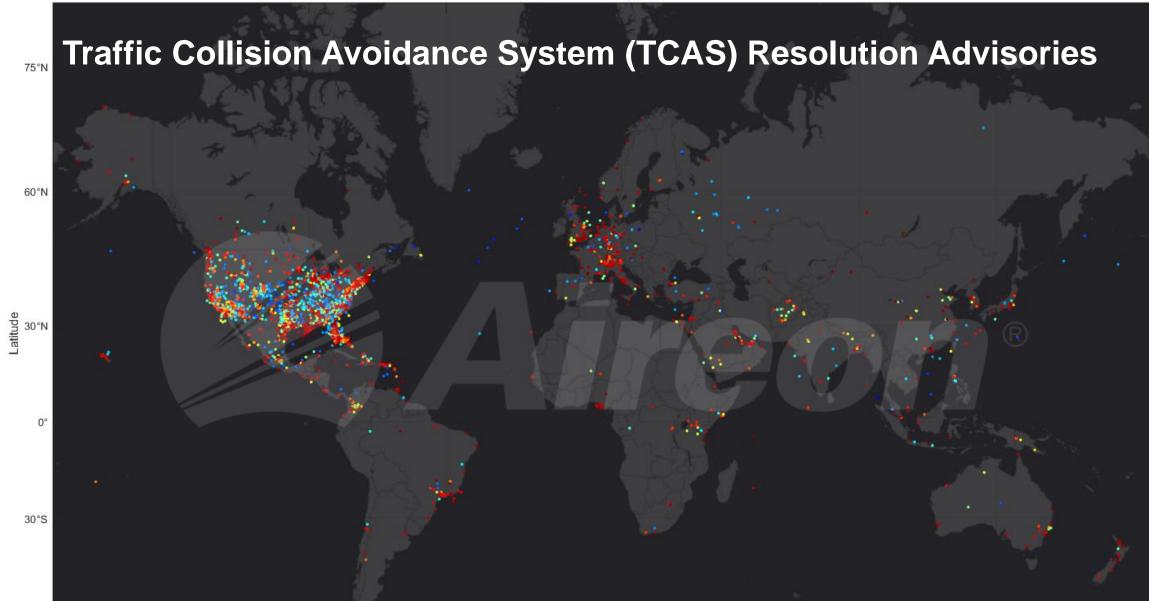
Aireon Authorized users only. Unauthorized use is prohibited and may be unlawful. Traffic display not to be used for separation. Terms of use Privacy Policy

AireonINSIGHTS™ Logbook









0°

Longitude

45°E



135°W

90°W

45°W

135°E

90°E

45000

40000

35000

30000

25000

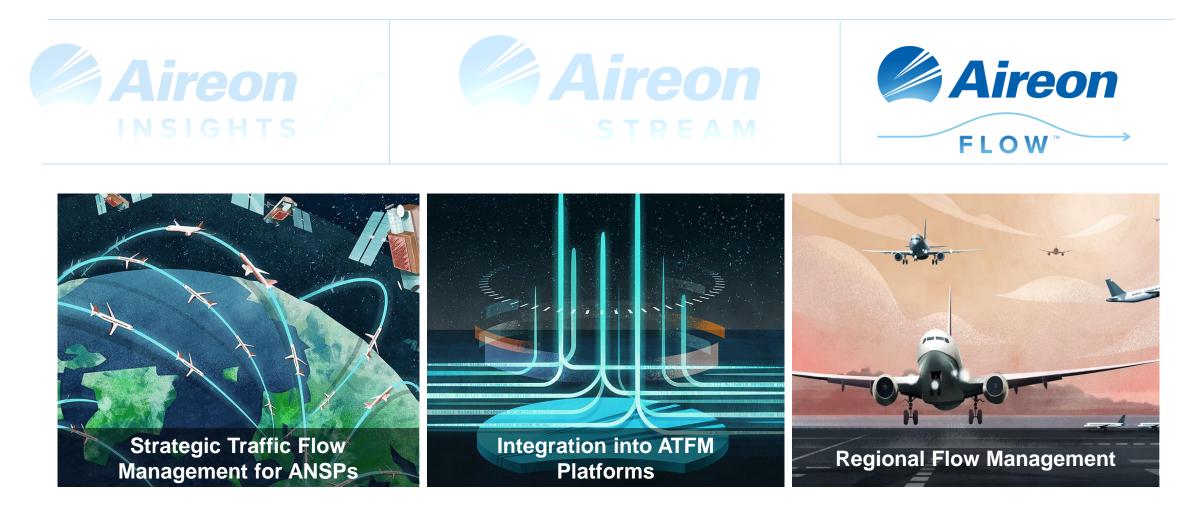
20000

15000

10000

5000

180°E





AireonFLOW[™] Data Coverage and Connection

Data Coverage

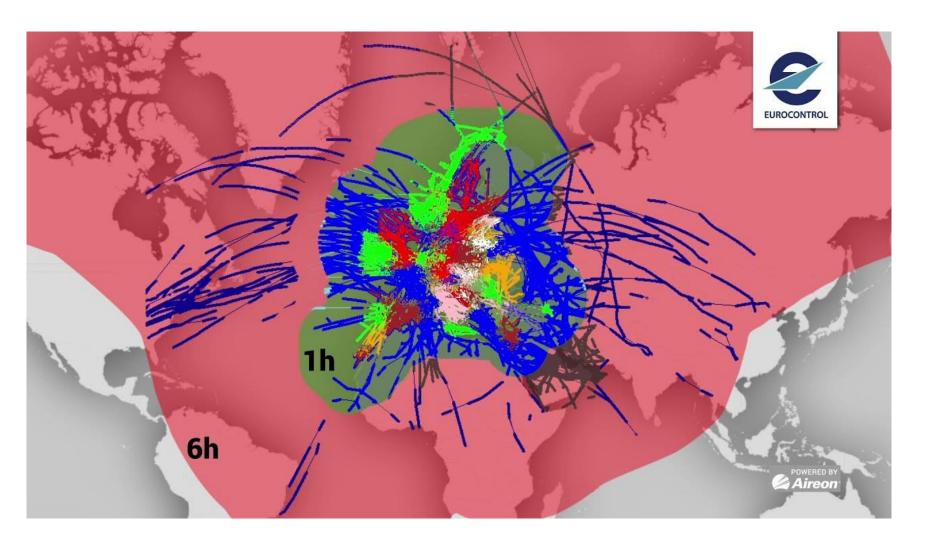
- AireonFLOW data includes all ADS-B equipped aircraft available to the Aireon receivers (i.e., 1090 MHz Extended Squitter (1090ES), 125W diverse/ top-mounted antenna)
- AireonFLOW data is available from the ground to ceiling of FL600, globally
- Customers receive all position reports of subscribed aircraft with a standard update rate of 60 seconds
- Latency from satellite to customer delivery is up to < 5 seconds, 99%

Tailored Subscription

• Feed configurable based on aircraft of interest, area of interest, or by departure/arrival aerodrome



Eurocontrol use case



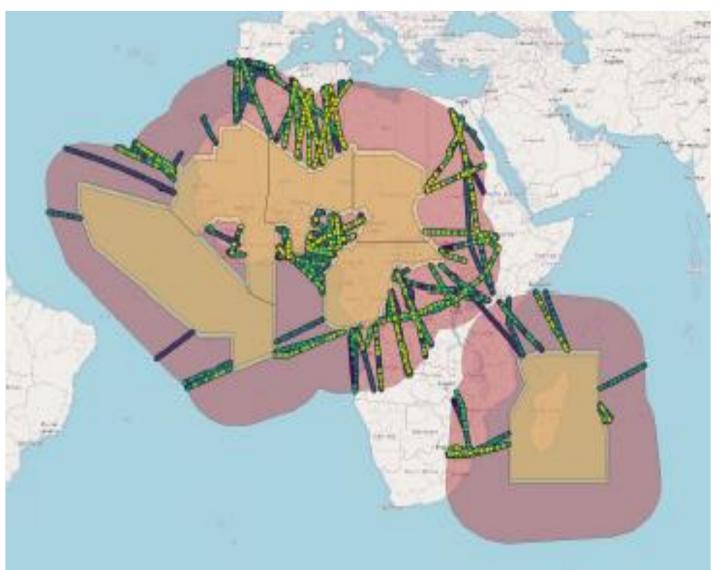
The new data will significantly boost air traffic predictability by up to 20%, improving operational efficiency and resilience while unlocking capacity for the future that will help reduce environmental impacts.

Eurocontrol



ASECNA use case

- Inbound traffic predictibility
- Completely customizable horizon
- Flight plan sharing under test







Thank you!

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