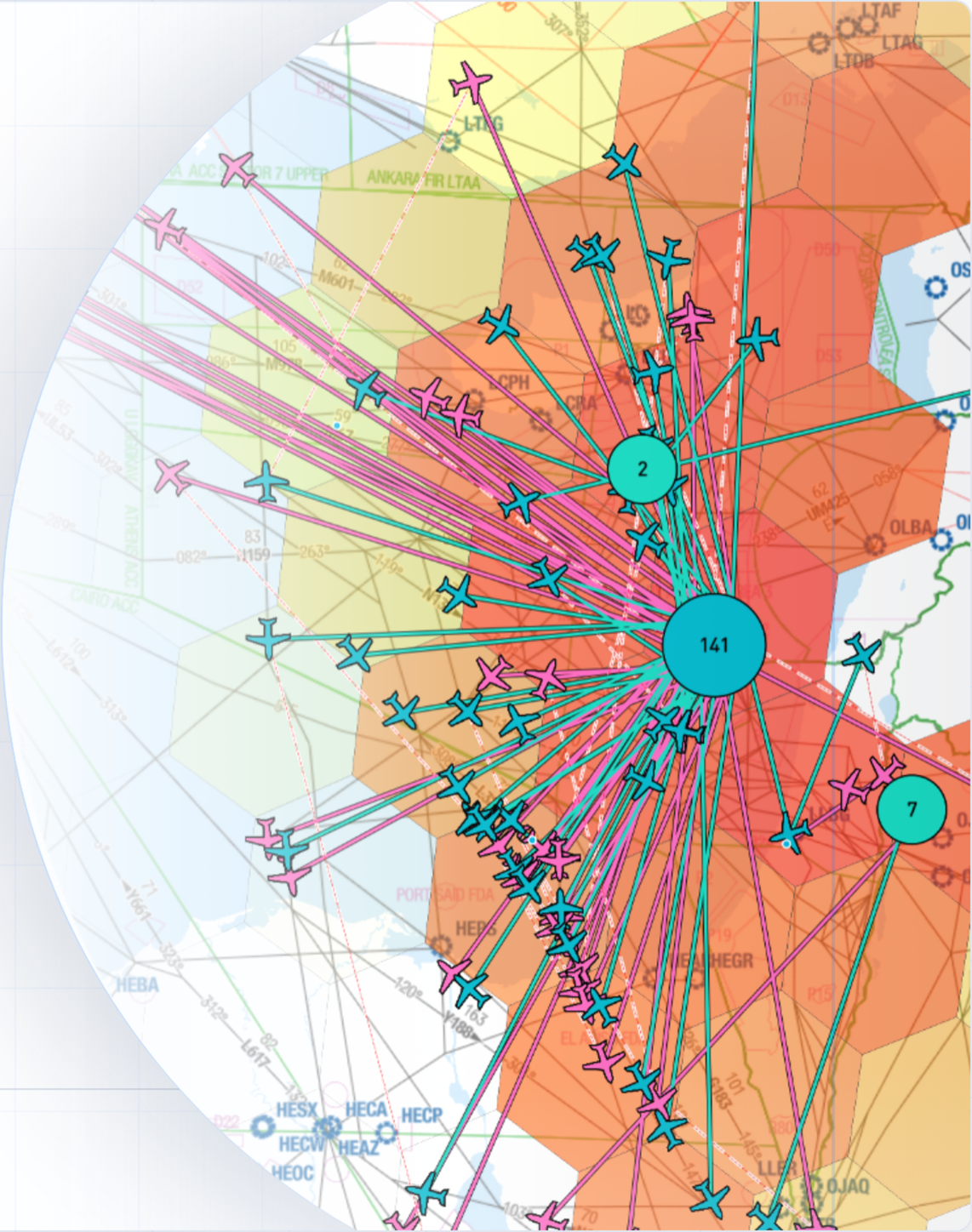
GPSWISE

Making GPS interference visible in real time

PRESENTED BY

Benoit Figuet

Co-founder, SkAI Data Services



SKAI DATA SERVICES | GPSWISE

CNS SG/15 MEETING

TODAY'S AGENDA

Agenda

01 What is GPSwise

02 How GPSwise works

03 Deployment options

04 Spoofing trend

05 Live demo

06 Operational use cases

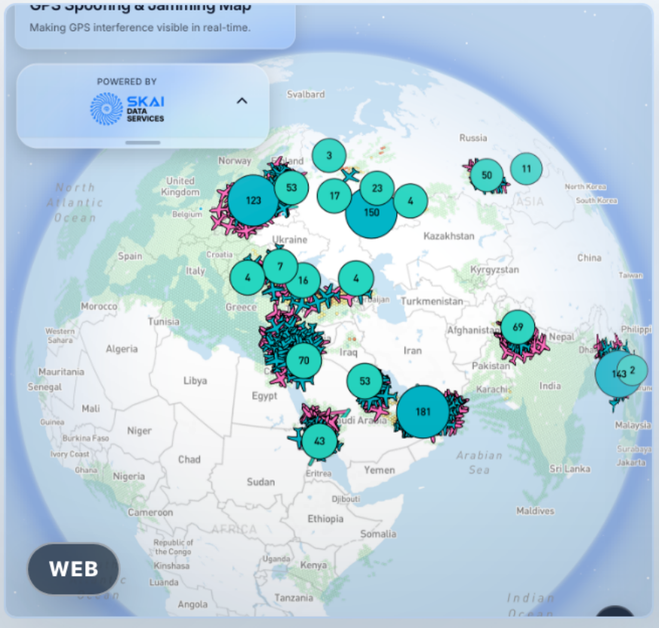
07 StratoCentral integration

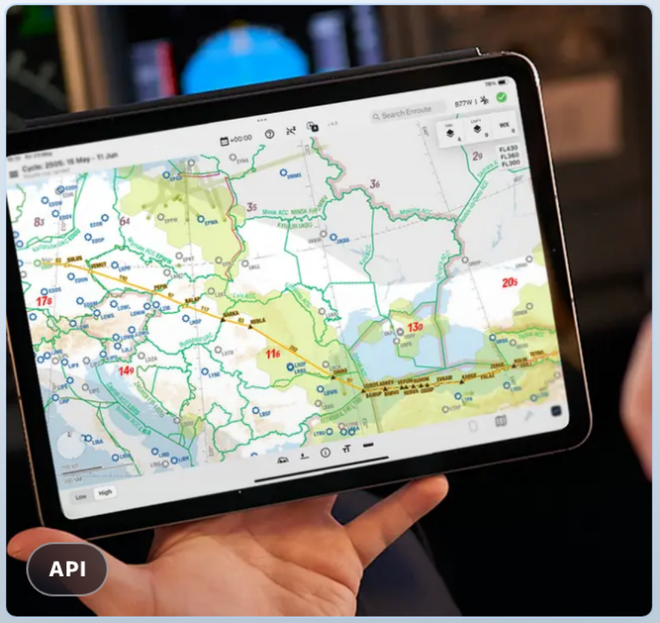
08 Questions and discussion

WHAT IS GPSWISE

Real-time GPS jamming and spoofing monitoring

GPSwise monitors GPS jamming and spoofing in real time using ADS-B data.





OPERATIONAL SINCE 2024

GPSwise was the world's first public live GPS spoofing and jamming map.

AIRLINES AND ANSPS

30+

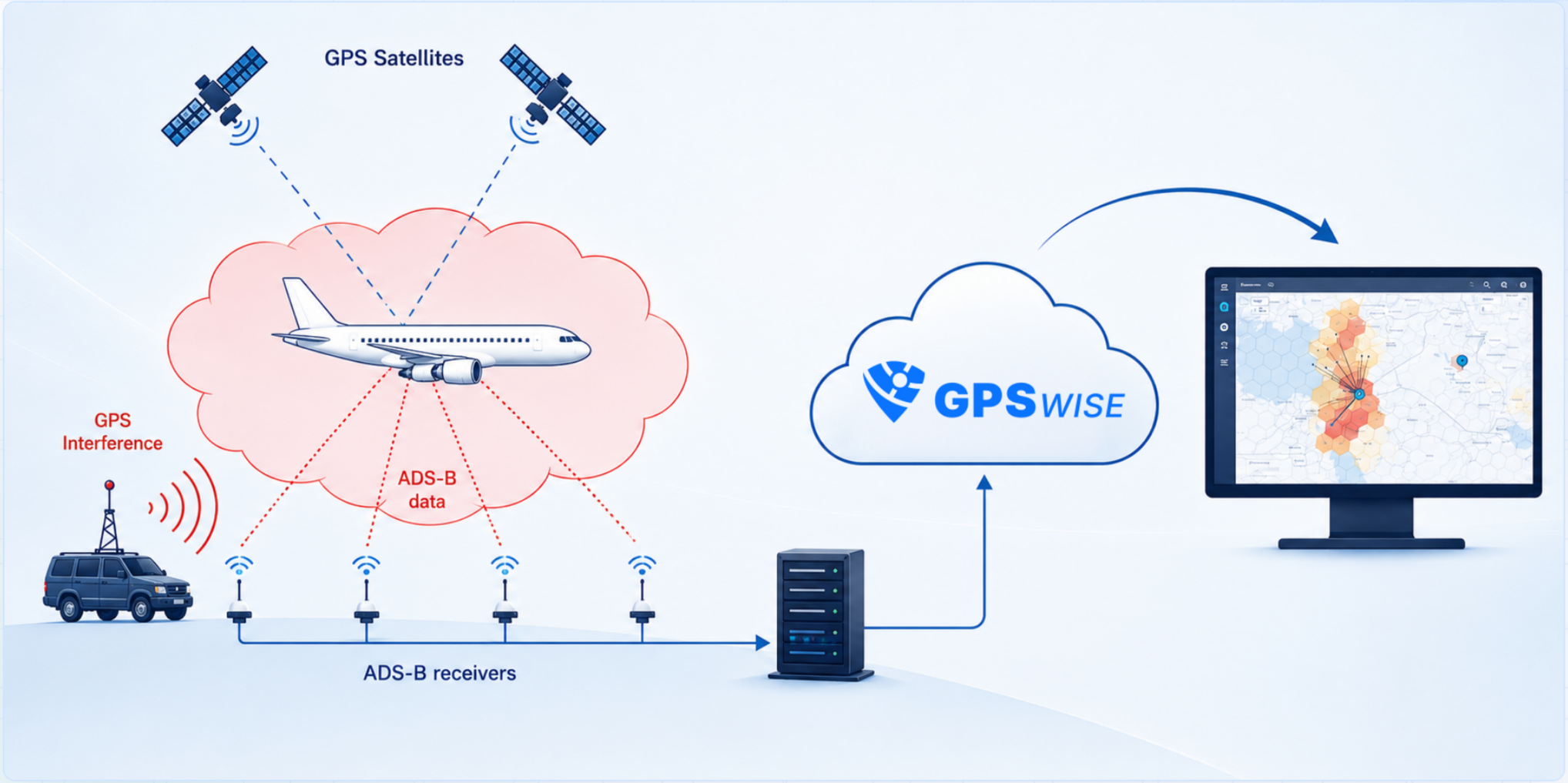
Already used operationally by more than 30 airlines and air navigation service providers for GNSS interference awareness.

FAA

"GPSwise has strengthened our ability to move from reactive reporting to proactive threat identification, improving both safety oversight and resilience in the National Airspace System."

Federal Aviation Administration

Aircraft as distributed GNSS integrity sensors



DEPLOYMENT MODEL

Multiple deployment options

Three operating models differ by data source, processing location, and fallback coverage.

FASTEST ROLLOUT

GPSwise cloud

DATA	Commercial
RUNTIME	GPSwise cloud

BENEFITS

- Fastest deployment
- Global coverage

FULL SOVEREIGNTY

On-premises

DATA	Customer
RUNTIME	Customer infrastructure

BENEFITS

- Sovereignty
- Own the data

SOVEREIGNTY + REACH

Hybrid

DATA	Commercial + customer
RUNTIME	Customer infrastructure

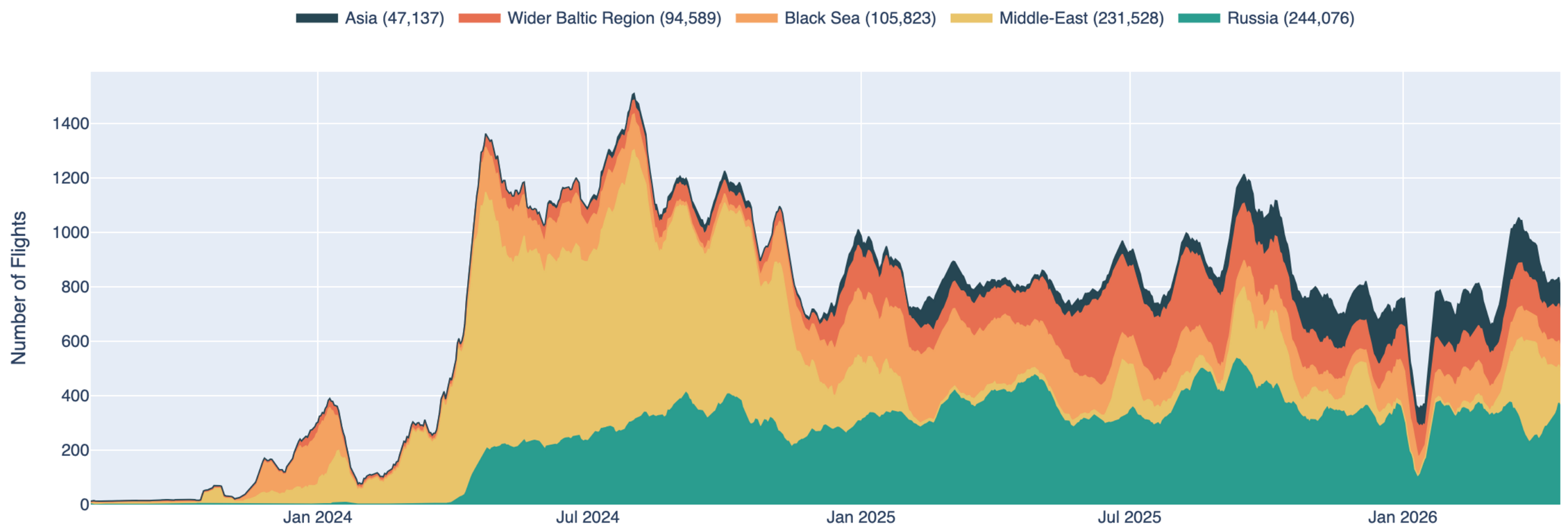
BENEFITS

- Sovereignty
- Own the data
- Global coverage
- Redundancy

REGIONAL SPOOFING ACTIVITY

Daily number of spoofed flights detected by GPSwise

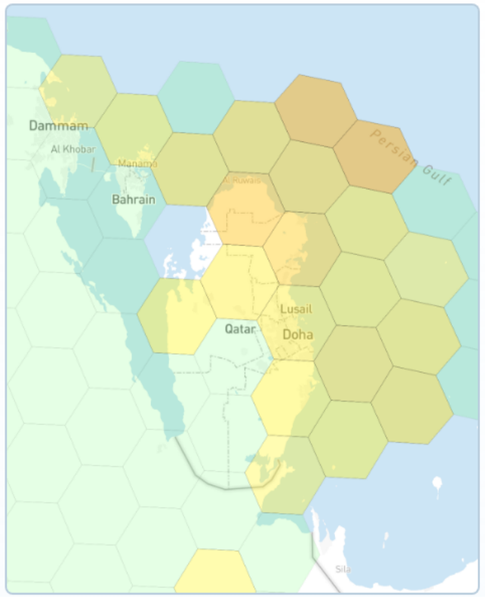
14-day rolling average.



GPSWISE LIVE DEMO

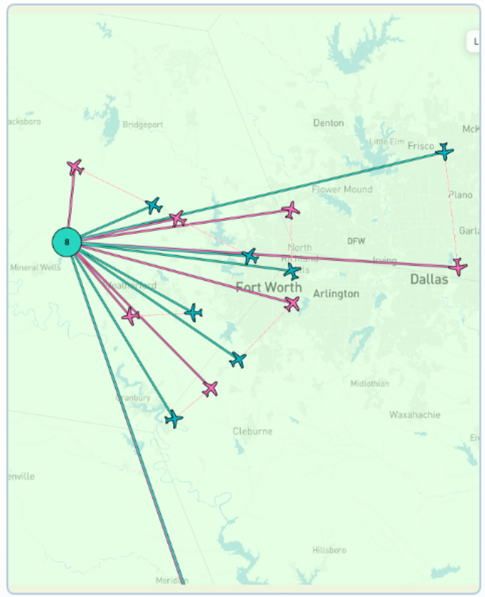
What to watch for in the live demo

GPSwise separates area-wide jamming from aircraft-level spoofing evidence so operators can understand both the regional picture and the affected flights.



Jamming

Jamming is displayed as an aggregated hex-grid heatmap over the map. Warmer cells highlight where GNSS interference is affecting more aircraft in the area.



Spoofing

For each spoofed flight, GPSwise retrieves three positions so the event can be counted and traced:

- Last valid position before spoofing.
- Spoofed position, clustered to count how many aircraft were sent to that location.
- First valid position after spoofing.

WWW.GPSWISE.AERO

OPERATIONAL USE CASES

Alert, assess, coordinate, document

From the first alert, GPSwise helps teams see the affected airspace, coordinate the response, and keep an auditable event record.

01

REAL-TIME OPERATIONAL ALERT

How do I know interference started?

Trigger alerts when GNSS interference affects your airspace.

Actionable alerts → Initiate response

02

AFFECTED AIRSPACE SCOPE

Which part of the operation is actually affected?

Identify affected sectors, routes, and flights so teams coordinate only the necessary response.

Live view → Coordinate response

03

INBOUND AIRCRAFT WITH DEGRADED NAV

Which flights need extra attention?

Identify exposed flights before entry or approach and show aircraft-level evidence for ATCOs and supervisors.

Flights watchlist → Support ATCO decisions

04

EVENT RECORD AND REPORTING

How do I keep an event trace?

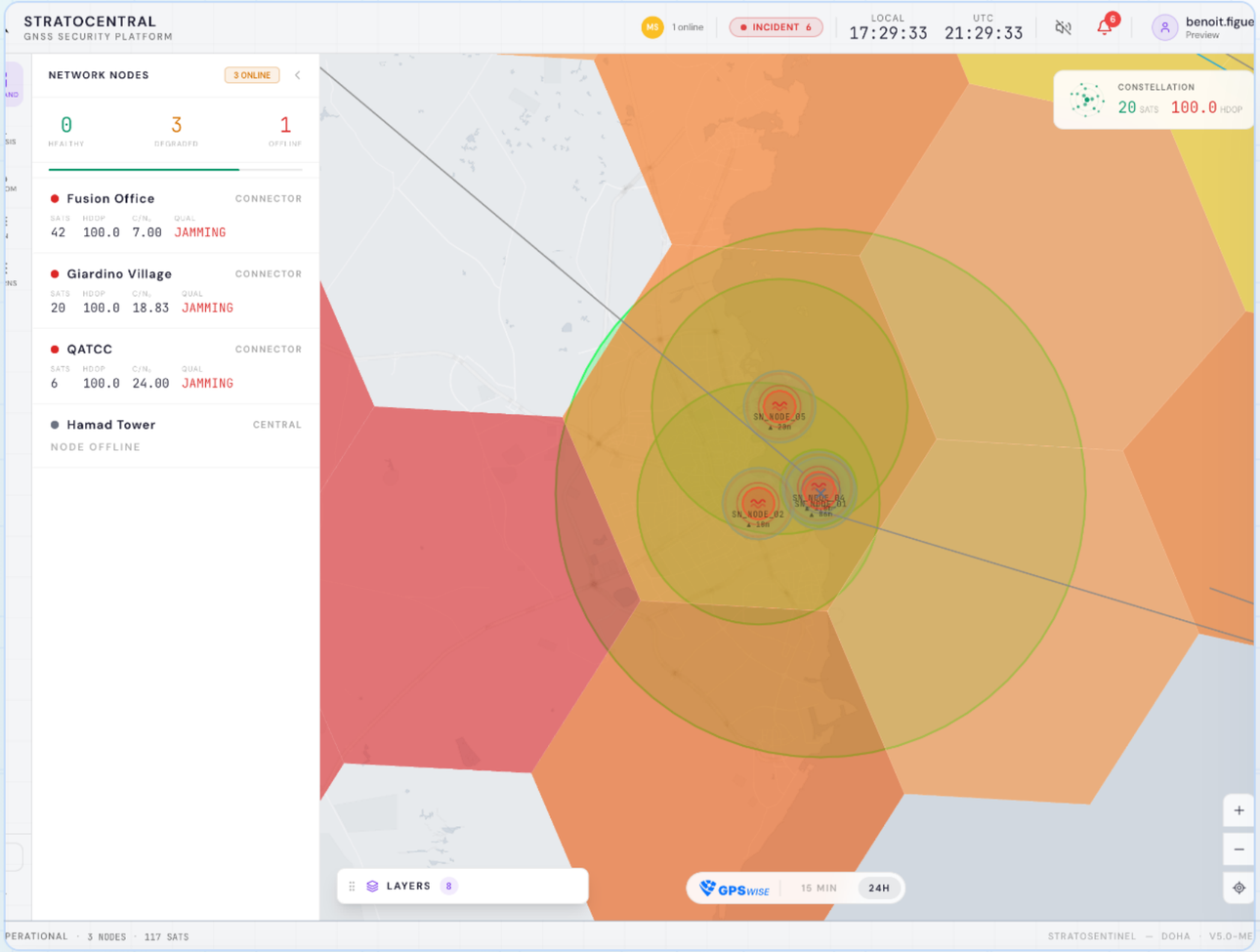
Replay the event timeline, review exposed flights, and correlate with pilot reports.

Traceable event file → Review and report

STRATOCENTRAL INTEGRATION

Two complementary sensing layers

Ground sensors show local RF conditions; GPSwise uses ADS-B to detect interference.



FUSION | StratoCentral

COMPLEMENTARY LAYERS

Two sources of detection. One operating picture.

Ground GNSS
Local RF conditions from fixed receivers.

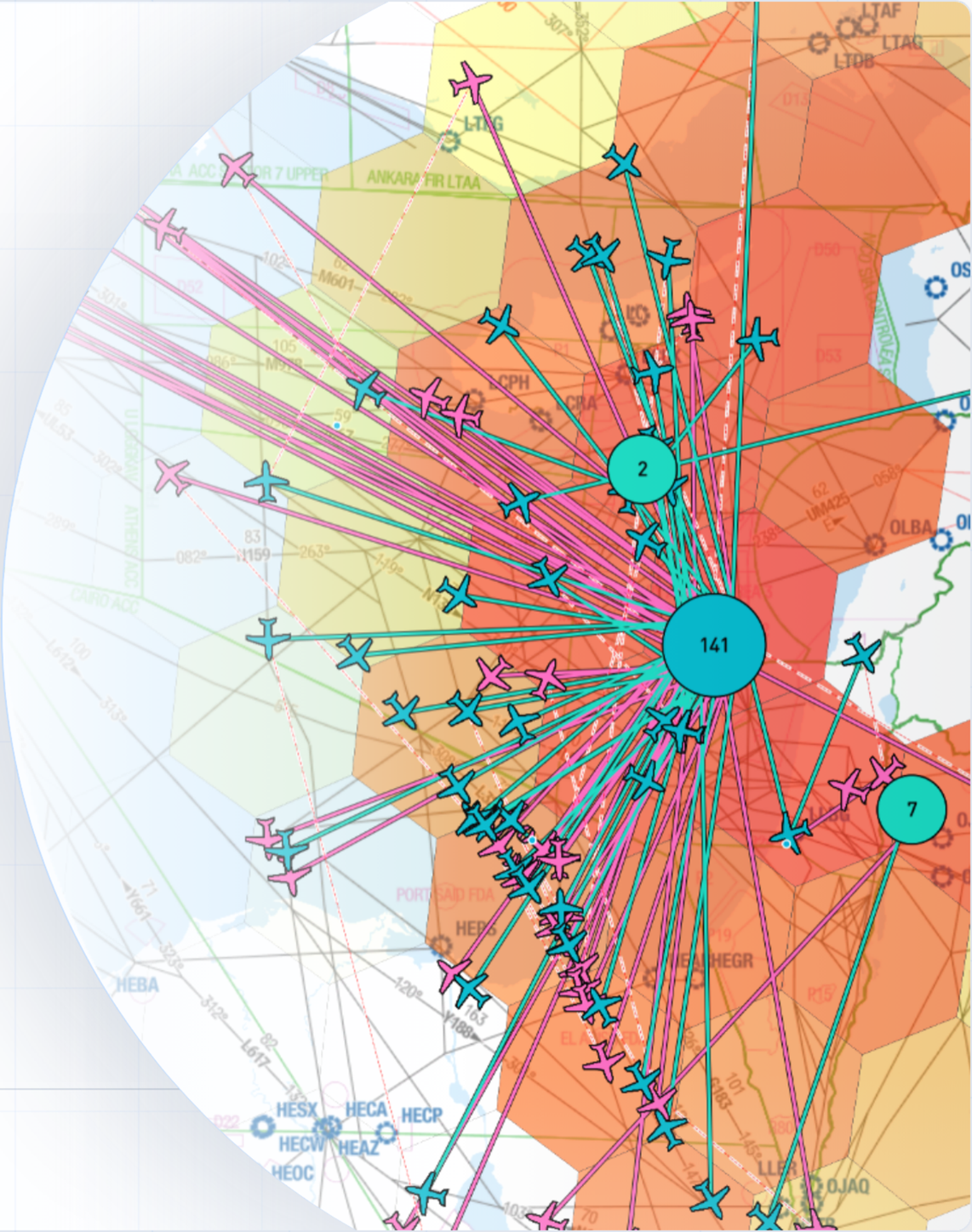
ADS-B / GPSwise
Aircraft-level interference detections, in the air and on the ground.

RF sensors provide localized precision; GPSwise provides the broader picture.

QUESTIONS AND DISCUSSION

Thank you

I am happy to take your questions.



QUESTIONS AND FOLLOW-UP

benoit.figuet@skai-data-services.com