SEARIDGE TECHNOLOGIES

AIRFIELD INSIGHTS: REAL-TIME OPERATIONAL INTELLIGENCE

Real-time airfield visibility, performance monitoring, predictive insights, and historical analysis in one shared workspace.

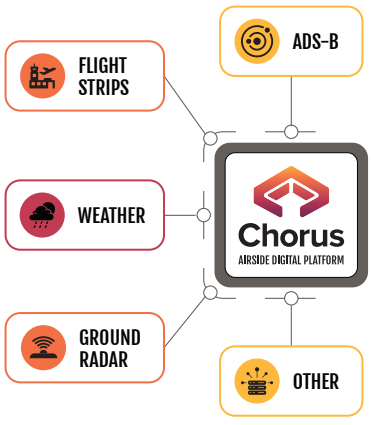
Airfield Insights is a real-time operational intelligence application that gives teams a live digital model of airfield activity across runways, taxiways, stands, and apron areas. It brings live situational awareness, event-based performance monitoring, predictive insights, and historical analysis into one shared workspace so teams can detect issues earlier, coordinate more effectively, and improve operational performance over time.

Airports already have significant operational data, but it often sits across separate systems, teams, and communication channels. When conditions change quickly, fragmented visibility can delay alignment between tower, APOC, airside operations, and other stakeholders.

Airfield Insights brings this information into a shared, live operational view of the airfield, helping teams understand what is happening now, where constraints are emerging, and how performance is changing over time.

HOW AIRFIELD INSIGHTS WORKS

CONNECTING OPERATIONAL DATA



Chorus, Searidge's airside digital platform, connects and standardizes data from airport and airfield systems, creating a trusted operational data layer for Airfield Insights.

CREATING A LIVE MODEL OF THE AIRFIELD

Airfield Insights uses this trusted operational data to create a live, digital model of the airfield, showing aircraft movements, ground activity, and operational conditions across runways, taxiways, stands, and apron areas.

TURNS ACTIVITY INTO OPERATIONAL INSIGHT

It combines live situational awareness with performance dashboards, KPI monitoring, configurable alerts, predictive insights, event logging, and synchronized historical playback to support real-time coordination, investigation, planning, and continuous improvement.

KEY CAPABILITIES

LIVE DIGITAL MODEL

Provides a shared, real-time view of aircraft movements, ground activity, and conditions across the airfield, helping teams align around a common operational picture.

SCALABLE DATA FOUNDATION

Leverages Chorus to connect approved airport and airfield systems, enabling new data feeds, use cases, dashboards, and modules to be added over time without creating complex point-to-point integrations.

HISTORICAL ANALYSIS & PREDICTIVE INSIGHT

Identifies recurring congestion patterns, seasonal pressures, operational hotspots, and performance trends to help teams anticipate constraints and support planning and continuous improvement.

REAL-TIME MONITORING & ALERTS

Supports earlier identification of congestion, delays, hotspots, and emerging constraints through live dashboards, KPI views, and configurable alerts.

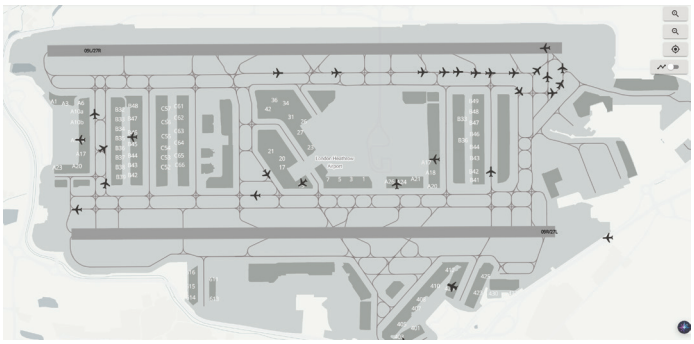
DASHBOARDS & KPI MONITORING

Tracks key operational metrics such as runway occupancy, taxi time, movement duration, throughput, and surface flow performance through standard and configurable dashboards.

EVENT LOGGING & SYNCHRONIZED PLAYBACK

Supports investigation, operational review, and post-event reporting through event records, electronic logs, and time-aligned playback of airfield activity.

AIRFIELD INSIGHTS IN ACTION



WHY AIRFIELD INSIGHTS?

- **Shared Operational Picture:** Reduces reliance on fragmented system views, manual updates, and disconnected reporting by giving teams a shared, real-time view of airfield activity as conditions change.
- **Earlier Awareness and Coordinated Response:** Helps teams identify emerging constraints earlier, align faster across stakeholders, and coordinate response before operational impacts escalate.
- **Evidence-Based Performance Improvement:** Connects live operational activity with historical performance data, helping airports identify trends, validate improvement opportunities, and move beyond anecdotal reporting.
- **Scalable Digital Airside Foundation:** Leverages Chorus to integrate and standardize data from existing systems, enabling new data sources, use cases, custom dashboards, and modules over time without creating fragile point-to-point integrations.
- **Built for Airside Operational Complexity:** Developed by Searidge Technologies and backed by NATS, Airfield Insights reflects deep experience supporting high-density, safety-critical airside operations.

SEARIDGE TECHNOLOGIES

Ready to turn airfield activity into operational insight? Connect with our team to schedule a personalized demo and see how Airfield Insights can help you improve real-time awareness, performance monitoring, and operational decision support.

For more information on our solution or to speak to our team:

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