



AGENDA

From Data Deserts to Digital Airfields: Making Airfield Data Usable for Day-to-Day Operations

Forum Objectives: This forum will bring together airport operations, maintenance, and technology leaders to discuss how airports can improve the visibility, consistency, and usability of airfield condition data to support safer, smarter, and more efficient day-to-day airside operations.

10-10:05 a.m. | Welcome and Session Overview

Jorge Hernández, *Chair*, International Association of Airport Executives (IAAE)
CEO, Aerostar Airport Holdings, LLC (Luis Muñoz Marín International Airport)
Puerto Rico

10:05-10:30 a.m. | Opening Perspectives: Airfield Condition Visibility Today

Moderator: Louis Wittine, C.M., ACE
Airfield Operations Technician III
Savannah/Hilton Head International Airport

Panelists: Brian Freed, CFA
Chief Executive Officer
Illuminex AI

Darren Large, A.A.E., ACE GA
Director, Facilities and Operations
DM AIRPORTS, LTD. | Operators, Morristown Airport

Matt Falcioni
Airfield Maintenance Manager, Runways and Taxiways
Greater Toronto Airports Authority (GTAA),

Discussion Points:

- How airfield condition information is currently captured and managed
- Where gaps or inconsistencies most commonly occur in operations
- The biggest operational challenges in achieving a complete view of airfield conditions

10:30-10:45 a.m. | Panel Discussion: Improving Airfield Condition Awareness in Operations

Moderator: Louis Wittine, C.M., ACE
Airfield Operations Technician III
Savannah/Hilton Head International Airport

Format:

Moderator-led interactive discussion

Key Themes:

- Current practices for inspections, reporting, and condition tracking
- How information flows between airfield maintenance, operations, and safety teams
- Challenges in achieving consistency across shifts, teams, and procedures
- Use of dashboards, KPIs, and operational reporting in decision-making
- Defining what “reliable situational awareness” means in daily airfield operations

10:45-10:55 a.m. | Operational Outlook: Closing Visibility Gaps**Discussion Focus:**

- Key opportunities to improve operational visibility and consistency
- Realistic industry standardization vs. airport-specific adaptation
- Role of emerging sensing, analytics, and simulation tools
- Most impactful improvements for day-to-day operations

10:55-11:05 a.m. | Closing Round: Key Takeaways

Each panelist shares:

- One operational priority for improving airfield condition management
- One persistent industry challenge that needs attention

11:05-11:10 a.m. | Audience Q&A

Facilitated open discussion focused on:

- Practical operational questions
- Real-world airport experience

11:10-11:40 a.m. | Small Group Breakout Discussions

Participants join facilitated groups:

Discussion Topics:

1. Improving consistency and reliability in airfield inspections
2. Enhancing operational awareness for airside decision-making
3. Maintenance prioritization and condition-based planning
4. Integrating new tools into existing airport workflows

Each group will discuss:

- Current operational challenges
- What is working today
- Practical improvements that could be implemented in the next 1–3 years



ABOUT ILLUMINEX AI

At Illuminex AI, our team is a blend of engineers, technologists, entrepreneurs, and industry specialists dedicated to leveraging AI to provide super powers for human inspections. We work with industry, government, and academia to add value for human-in-the-loop automation to increase safety and gain efficiency in critical infrastructure operations and maintenance.

Our executive team excels in finance, non-destructive testing and inspection, AI, and advanced physical process modeling. We have a proven record of turning ideas into successful products and using AI to solve tough problems. We're dedicated to driving innovation, enhancing customer experience, and ensuring employee satisfaction.