# **Modernizing Airport Operations**

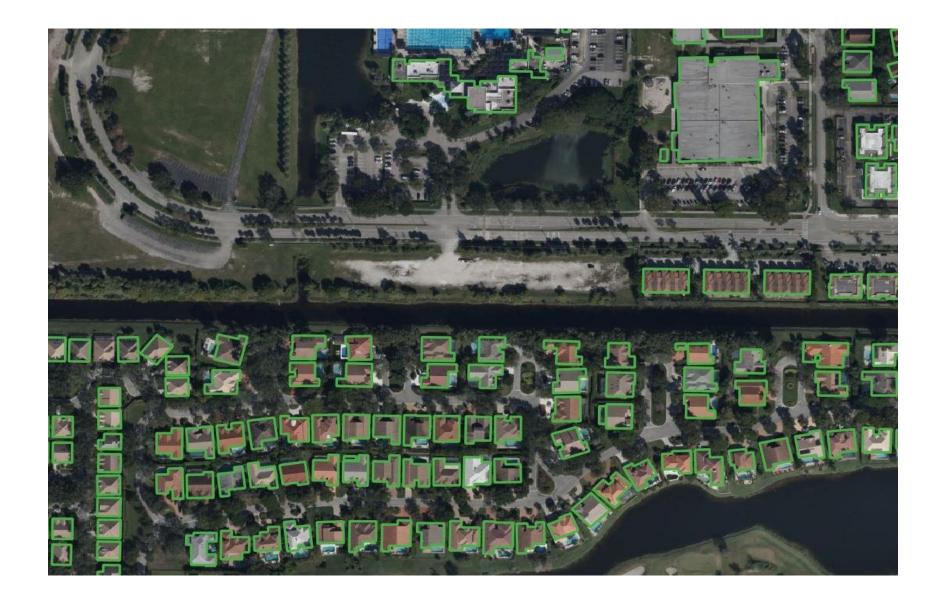
With Visual Intelligence





# **Innovation Expertise**

Remotely identify, monitor, and quantify construction activity using Satellite Imagery







# Computer Vision Solution

Sky to Ground Intelligence



Sky to Ground Intelligence

- ClariVision by Datalytix is an AI-powered, computer vision platform
- Solution combines aerial imagery, ground sensors, and custom data to provide real-time insights across industries
- Platform streamlines data collection, analysis, governance and decision-making
- Unify sky-to-ground intelligence to help organizations track progress, enhance security, ensure compliance, and optimize operations





Sky to Ground Intelligence



#### One-Stop Solution

Eliminate complexity with our comprehensive, end-toend platform

#### • Multi-Level, Multi-Modal Vision AI

Situational awareness integrating both aerial and ground data

#### Customizable & Scalable

Pre-built platforms and custom add-ons accelerate deployment and optimize costs





# Visual Intelligence for Airport Operations



# People Monitoring & Safety

- Passenger & Terminal Monitoring
- Airside Safety
- Construction Workforce Safety



#### Security & Access Control

- Restricted Area Surveillance
- Smart Identity Recognition
- Perimeter & Wildlife Monitoring



Operational Efficiency & Situational Awareness

- Airside & Landside Operations
- Construction Progress Monitoring
- Emergency Response



Infrastructure Health & Maintenance

- Runway & Tarmac Inspection
- Lighting & Signage Monitoring
- Maintenance Activity Oversight





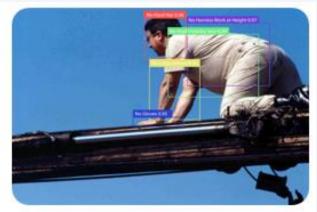




Safety, Security & Operational Intelligence Powered by Fogsphere



























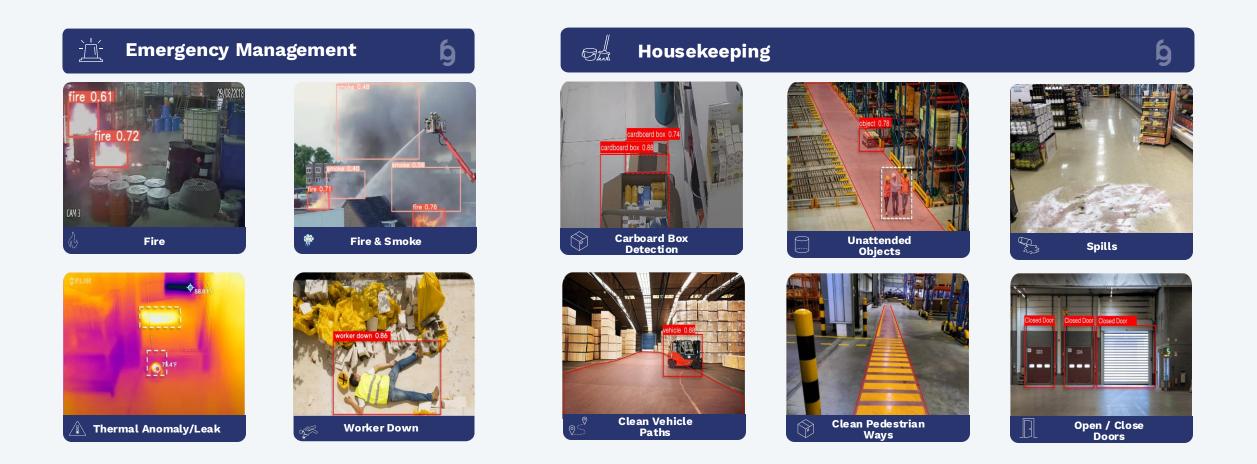




**Restricted Height** 



Safety, Security & Operational Intelligence Powered by Fogsphere



Safety, Security & Operational Intelligence Powered by Fogsphere





Safety, Security & Operational Intelligence Powered by Fogsphere



#### **Area Controls – Area Safety & Security**









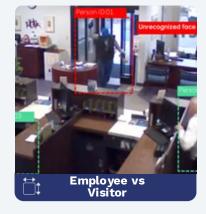


















# Integrated Technology Stack



Smart Cameras with ML Detection

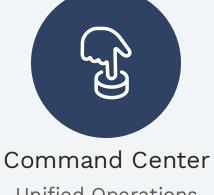


Environmental & Equipment Data

IoT Sensors



Drone & Satellite Feeds



Unified Operations
Dashboard



#### **Incident Response**

Real-Word Example: Reduced Visibility, Fuel Spill, Security Breach, PPE Violation

#### **Traditional Response Limitations**

- Delayed Discovery
- Fragmented Communication
- Manual Documentation
- Resource Conflicts

#### Integrated Intelligence Response

- Al Vision Detection
- Intelligent Prioritzation
- Coordinated Dispatch
- Auto-Documentation



Solution Components



Data Acquisition

Our capabilities combine satellite imagery, CCTV cameras, sensors, and structured/unstructured data.



**Data Services** 

We provide pre-built AI models, custom workflows, event tracking, and enterprise integration support.



Al Governance

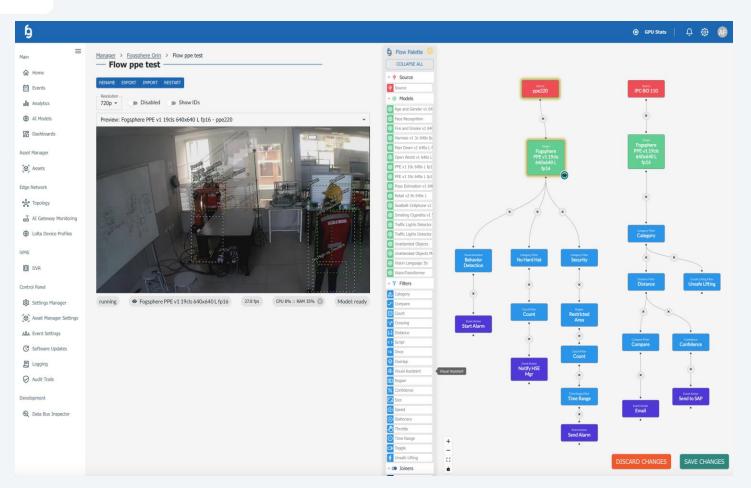
Solution incorporates start-to-finish AI governance to enhance risk management and compliance.



## ClariVision Platform

#### ○→ No-Code □← Workflows

#### Powerful No-Code Workflows



Connect to **any CCTV camera** or **VMS** with a single click

Drag & Drop your Al Model of choice

Add an **off-the-shelf or custom filter or algorithm** 

Add an action to **Log data**, **send Alarms**, make **API Calls**, or create **Reports** and **Analytics** 

Create **one or more Flows** to implement your processes



# ClariVision: Built for Compliance

FAA, MAA, State/County-Level Requirements

Requirement	How It's Addressed
Runway Safety / Incursion Alerts	Smart cameras & AI detect and alert on real-time violations
Wildlife Hazard Management	Computer vision flags wildlife presence with location and timestamp
Spill Detection & Environmental Reporting	IoT sensors + video evidence automatically logged for audits
Safety Management System (SMS) Readiness	Data-driven dashboards support hazard analysis & safety metrics
Incident Documentation & Audit Trails	Time-stamped video, geotagged alerts, and resolution logs
Perimeter Zoning & Obstruction Tracking	Drones + satellite imagery support land use monitoring

Proactive Compliance, Audit-Ready, & Low Overhead



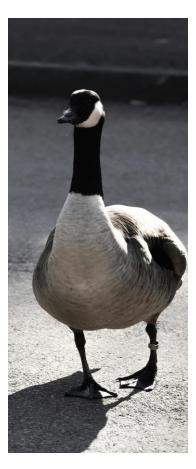
# ClariVision: Enterprise Value



People & Safety



Infrastructure



Security & Access



Compliance & ROI



Operations



Sustainability



• datalytix

Put your data to work. 2025 Proprietary and Confidential. All

**DATALYTIX** 

Real-time Demo

# Let's get started

- www.datalytixglobal.com
- info@datalytixglobal.com







# **Appendix**



ClariVision's holistic approach empowers organizations to rapidly detect opportunities, mitigate risks, and drive smarter decisions in realtime.



Progress Tracking



**Accident Detection** 



Safety Compliance



Vehicle Monitoring



Security Controls



Disaster Recovery



PPE Monitoring



Behavioral Monitoring



## Relevant Industries

Aviation

Construction

Disaster Relief

Utilities

Manufacturing

Schools

Agriculture

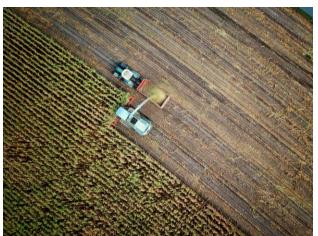












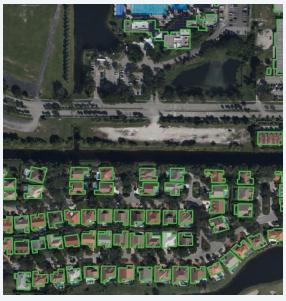


#### Aerial Intelligence



Urban Planning

Analyzing urban development patterns and infrastructure using satellite data to inform city planning



**Building Classification** 

Identifying buildings and classifying structures for economic indicators, public surveys, and progress tracking



Disaster Response

Leveraging satellite imagery to assess the impact of natural disasters and coordinate relief efforts



**Environmental Monitoring** 

Tracking deforestation, water quality, and other environmental indicators using satellite data

