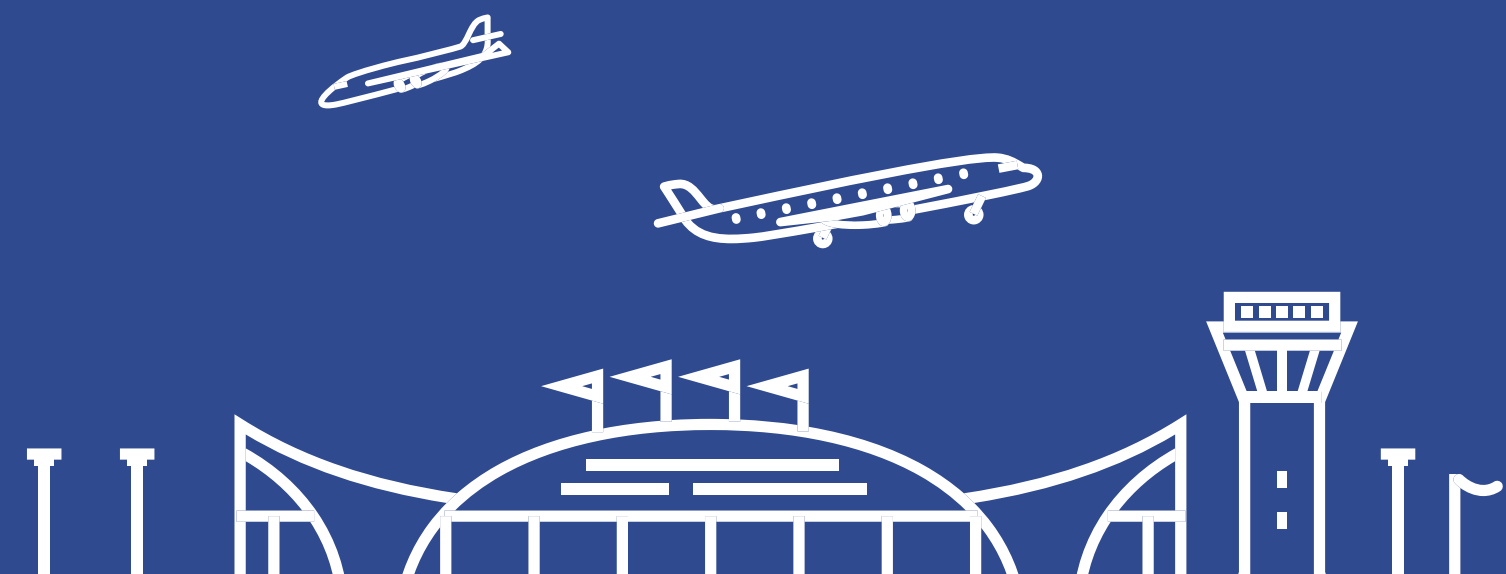
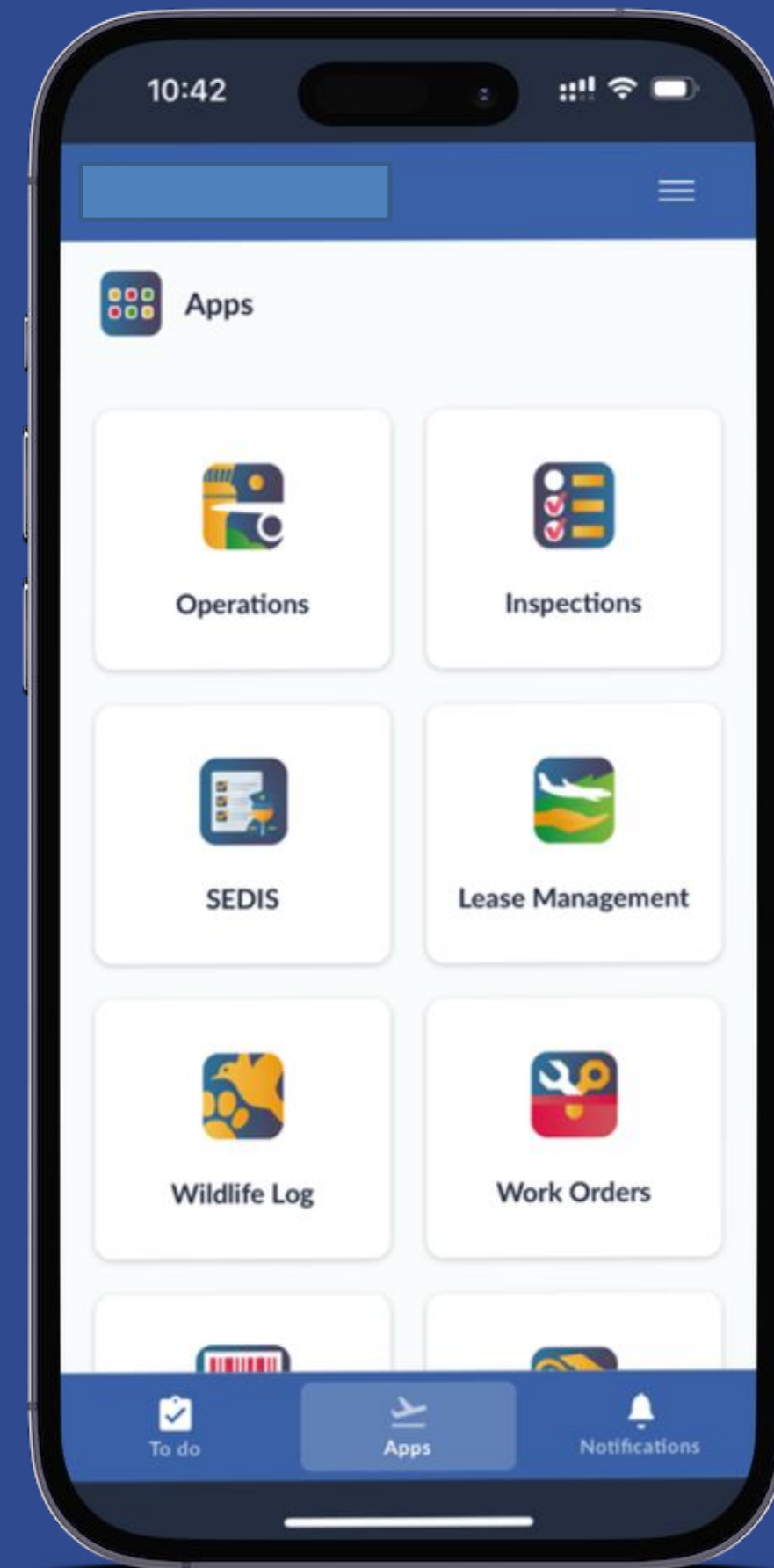


Stephen Blessing

Digitizing your airport's
operations, maintenance,
& snow removal processes



Stephen Blessing

1984-1989 Stapleton Int'l Airport -

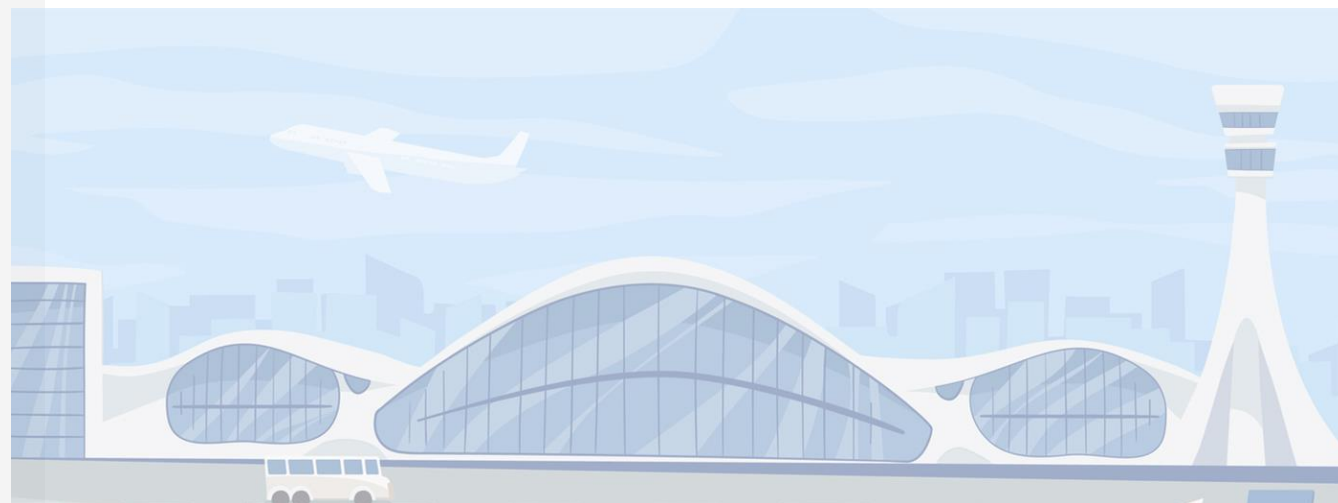
Deputy Chief Maintenance

1989-1995 Denver Int'l Airport - Program
Mgt Team for design of the new DEN

1995-1997 Denver Int'l Airport - Director
of Hi-Tech for 23 technology systems

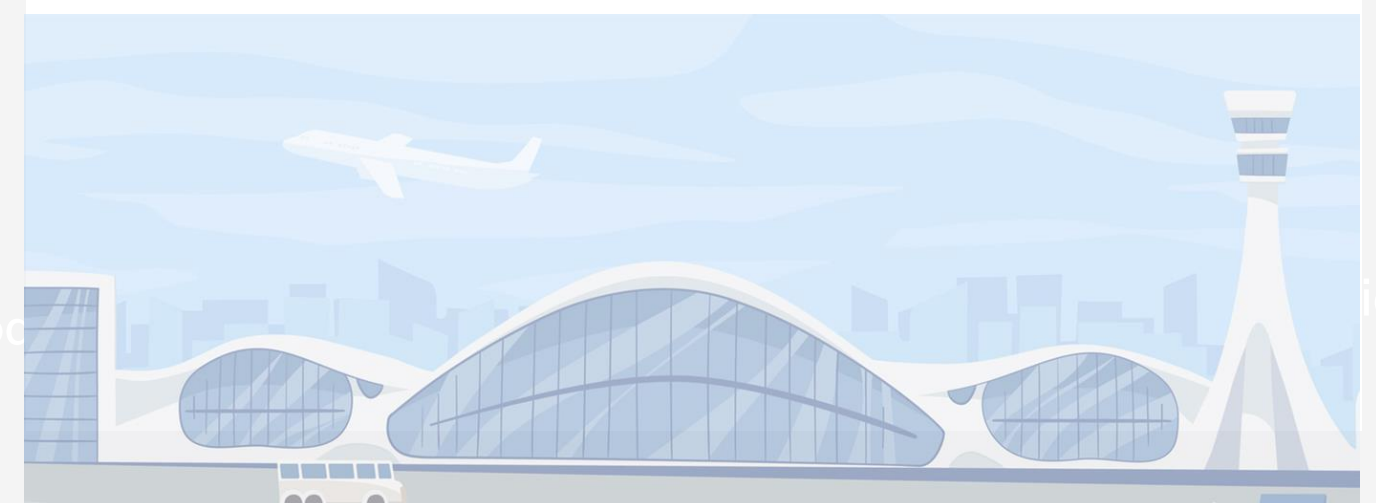
Stephen Blessing digitization experience:

- Digitized Ops for over 100 Airports
- Maximo implementation SIA
- Maximo SME Pearl Harbor Navy Base
- INFOR SME DFW
- INFOR SME IAH & HOU



Airport Project Highlights:

- DEN Airport program mgt team
- DFW Runway paving
- DFW Power Plant consultant
- DFW - Singapore Changi - ARFF
Training Agreement
- DFW ARFF Training Center Business
Plan
- DFW \$1+ million mobile command
post design & procurement
- SIA 1st responder Continental 1713
11/15/87
- SIA logistics for 3-million-gallon fuel
farm fire 11/25/1990
- SIA conversion of fleet to CNG
- Gatwick Baggage System make-up
bag concepts
- Snow removal SIA and DEN
- SIA/DEN Surplus Equip Program



dig·i·ti·za·tion

/ ,dijədə 'zāSHən/

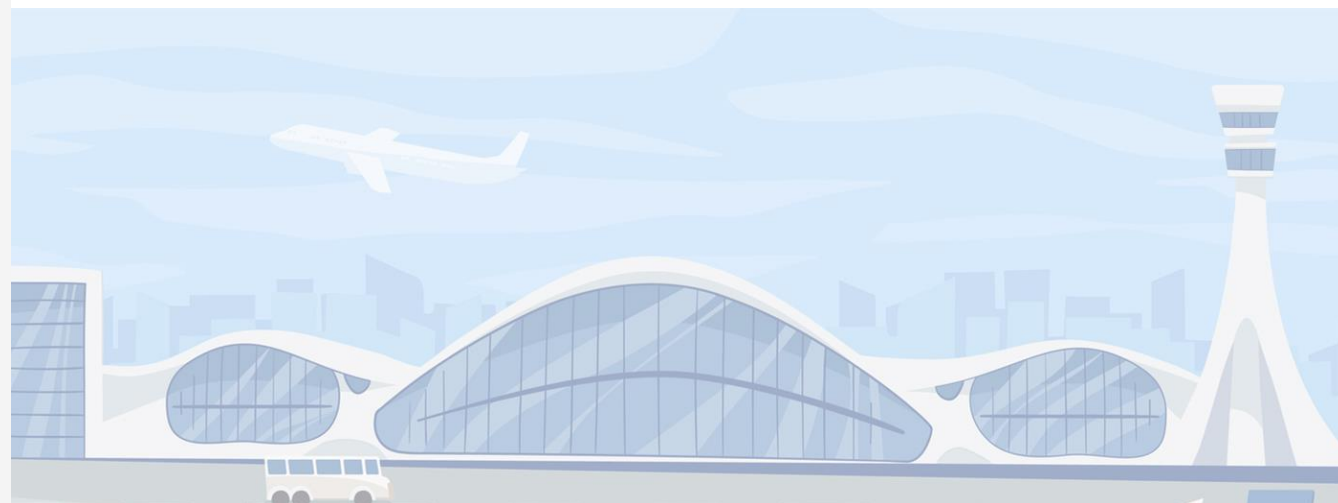
noun

1.the conversion of text, pictures, or sound into a digital form that can be processed by a computer.

"the digitization of airfield maps, checklist and forms"

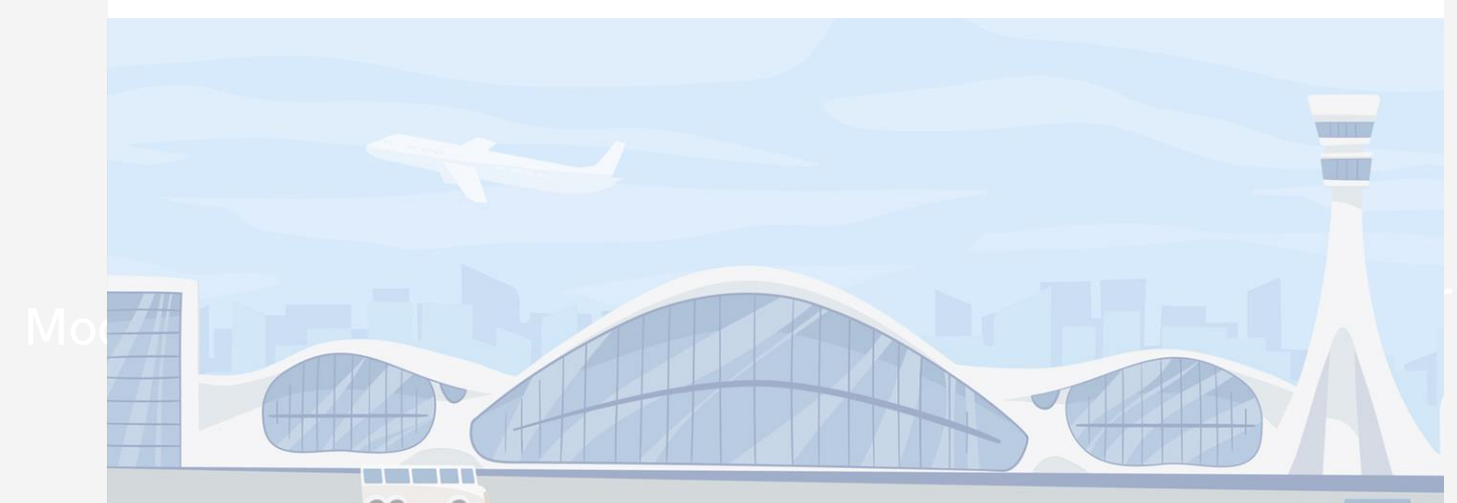
2. adaptation of a system, process, etc. to be operated with the use of computers and the internet.

"as digitization continues, data will become more valuable than ever before"



Software platform should empower airports to:

- Digitize processes
- Stay compliant with regulatory requirements like Part 139
- Improve Safety and Security
- Keep everyone on the same page with real-time reporting



Airport wide adoption

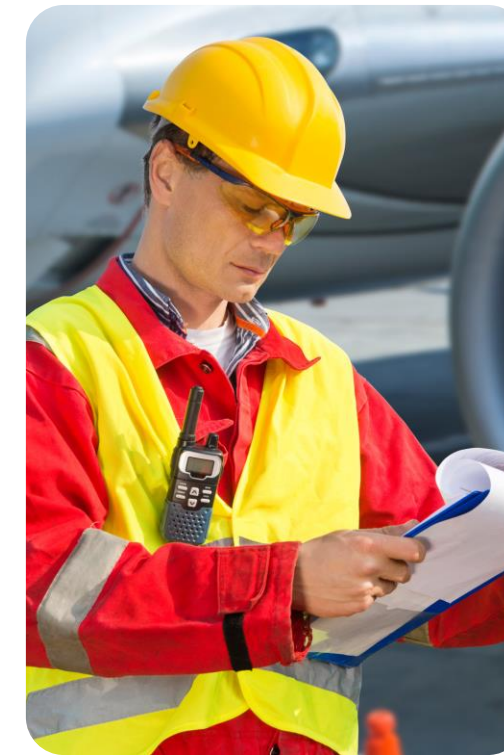


OPERATIONS



COMMERCIAL

MAINTENANCE

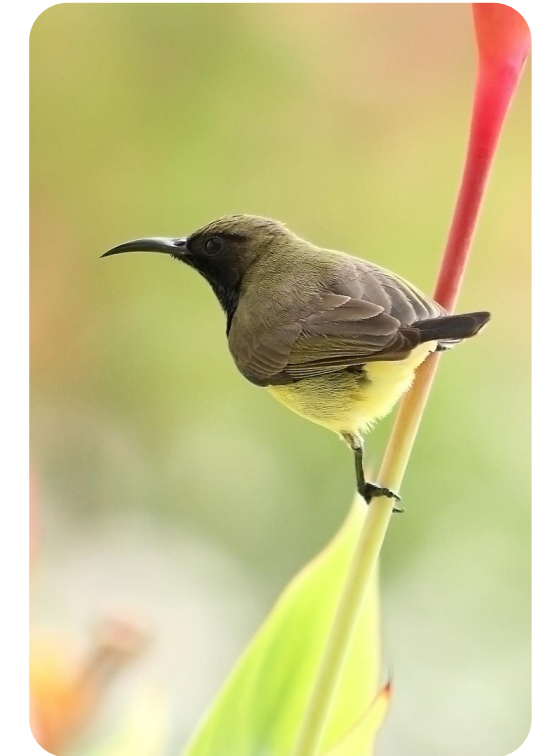


SAFETY



SECURITY

ENVIRONMENTAL



ARFF



Noise Management

ARFF

- Equipment Checklists
- Equipment Maintenance
- Fuel Farm Inspections

Learning Management

Airport Operations Centre

- Airfield Inspections
- Operations Logs
- Resource Allocation
- Shift Tasks
- Personnel Training
- Asset Management

Commercial

- Property Mapping
- Lease Management
- Tenant Portals
- Online Invoicing and Payments
- Hangar Inspections

Safety

- Hazard Reporting
- FOD Management
- Risk Assessment
- Risk Acceptance
- Mitigations and Corrective Actions

Gate Management

Maintenance

- Work Order Management
- Preventative Maintenance
- Job Actions
- Inventory Tracking

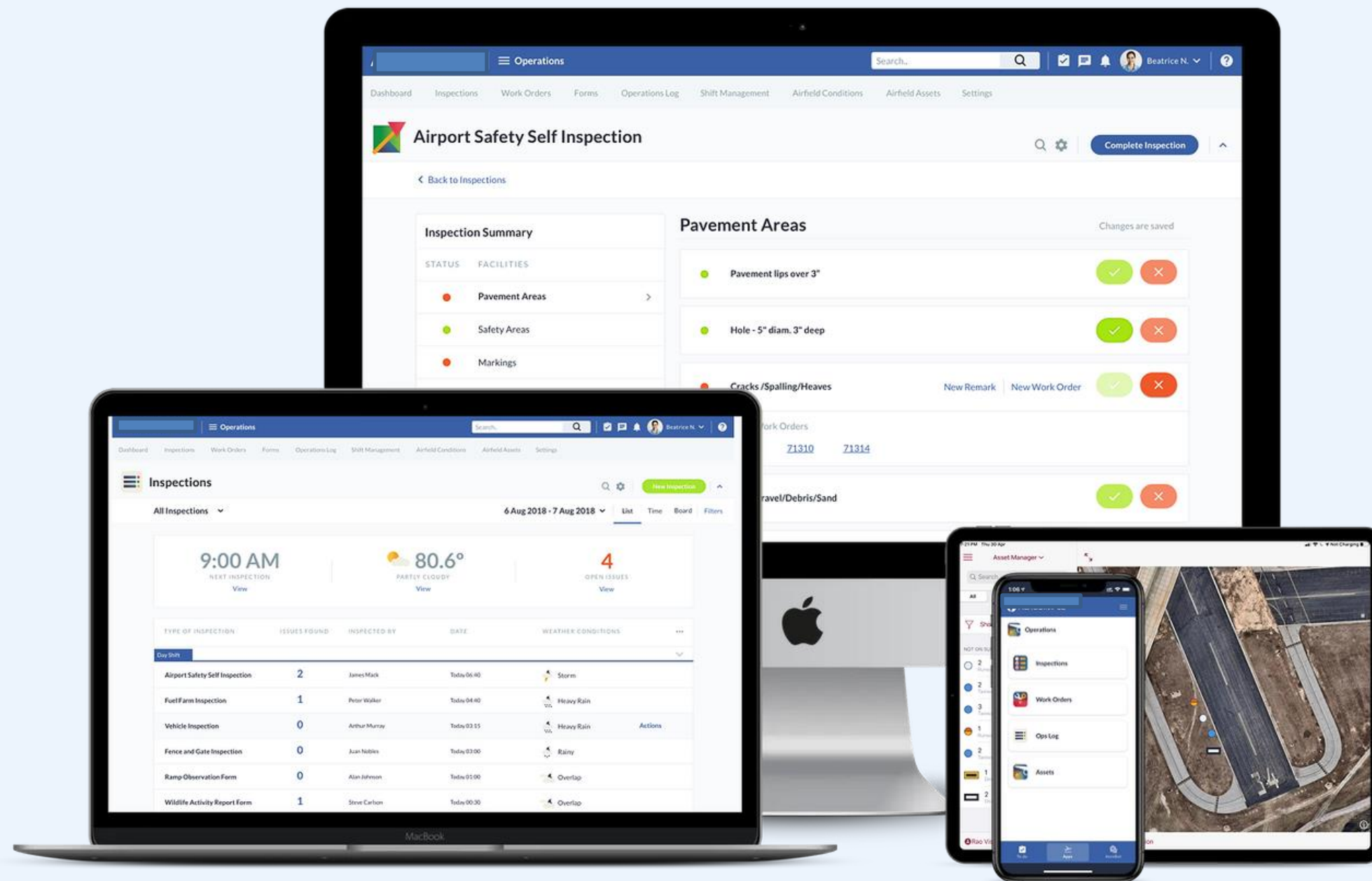
Security

- Terminal inspections
- Incident Reporting
- Badging

Environmental

- Wildlife Management
- Storm Water Inspections

WEB AND MOBILE PLATFORM



Computers: Web Browser
iPAD in Trucks: Navigator App
Mobile Phones: iOS and Android



The term native app means **any application written to work on a specific device platform**. The two main mobile OS platforms are Apple's iOS and Google's Android. Developers write native apps in the code used for the device and its OS.

SOLUTIONS FOR AIRFIELD OPERATIONS MANAGEMENT



Airfield
Inspections



Airfield Condition
Reporting



Safety
Management
System



Work Order
Management



Shift
Tasks



Online
Forms/Incident
Reporting



Wildlife
Management



Asset Registry and
Inventory Tracking



GIS
Mapping



Operations
Logs



Learning
Management System



FOD
Logs

SOLUTIONS FOR LEASE AND TENANT MANAGEMENT



Tenant
Management



Work Order
Management



Hangar Inspections
and Scheduling



Visual Property
Mapping



Phonebook
and Contacts



Tenant
Portals



Document
Management



Invoicing and
Online Payments



Waiting List
Management

OPERATIONS AND OTHER DEPARTMENTS

Process Digitization Tools



**Inspections
Builder**



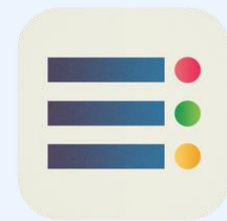
**Forms
Builder**



Tasks



Flows/Decision Trees



Operations Logs



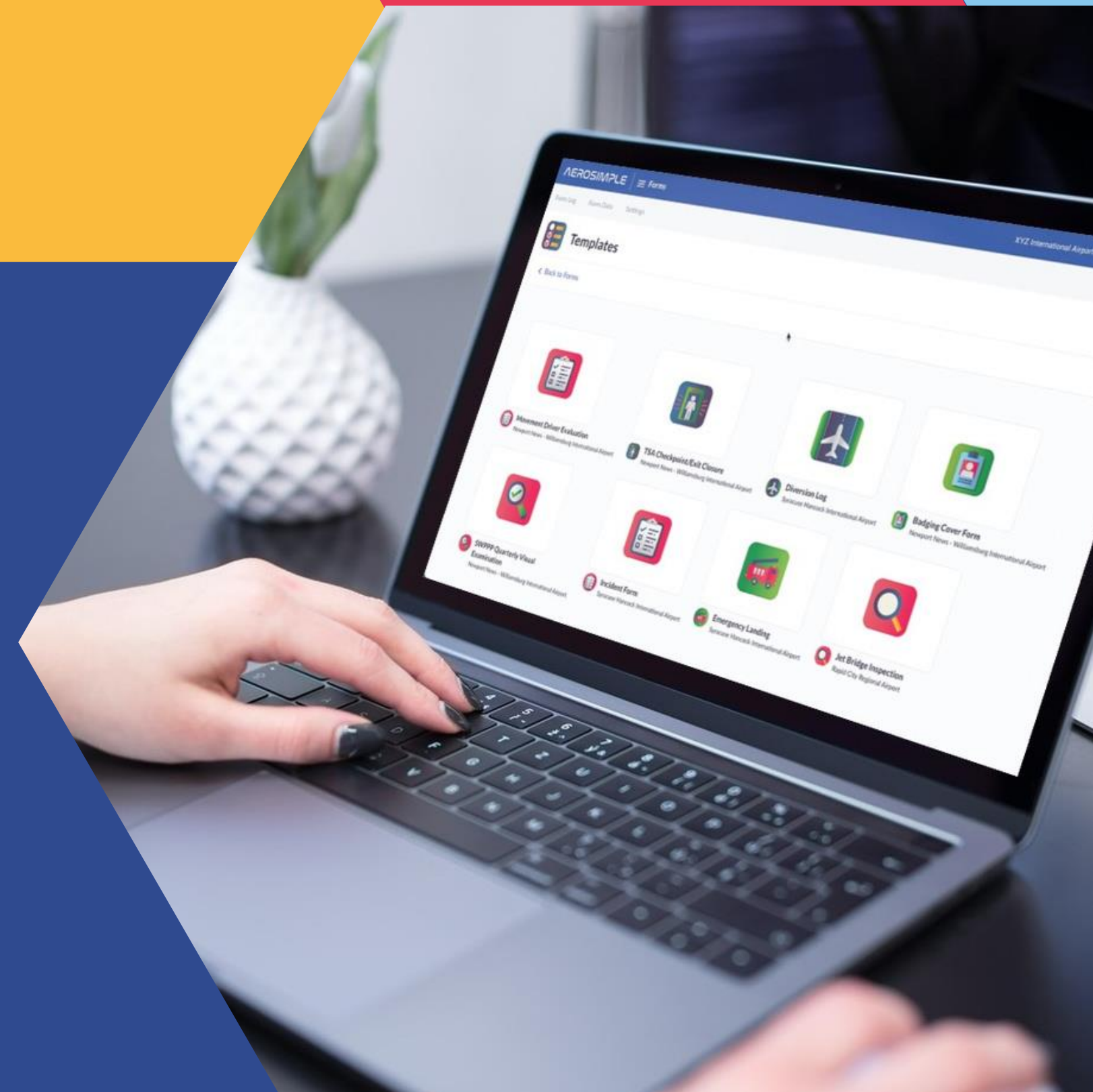
**Airport
Portals**



KNOWLEDGE BASE

Templates designed by airport staff and shared with other airports as best practices within the platform

- Checklist Library
- Forms Library





INSPECTIONS

- Airport Safety Self Inspection
- Fuel Farm Inspection
- Fuel Truck Inspection
- Refueler Inspection
- Vehicle Inspection
- Outfall Visual Daily Inspection Checklist
- Terminal Inspection
- Hangar Inspection
- Facility Condition Assessment Inspections
- Continuous Surveillance Checklist
- Construction Inspection
- Special Inspection Checklist
- EMAS Inspection
- PAPI Inspection
- Weekly Vault Generator Checklist
- Asset Condition Assessments





FORMS

- Aircraft Incident/Accident Report
- General Incident Report
- Laser Strike Report
- Medical Incident Report
- Airline Diversion Log
- Complaint Form
- Construction Notification Log
- Escort Log
- Notice of Violation
- Friction Testing
- Hazmat Spill Report
- Gate Management Log
- Movement Driver Evaluation
- Property Damage Report
- Snow Alert Operations Report
- Security Breach Incident



MAINTENANCE DEPARTMENT

Work, Asset and Equipment Management



Work Orders



Asset and Inventory Management



Preventative Maintenance



Job Actions



S A F E T Y

Safety and Security Management



Third-Party Security Inspections

- **Location-based Security Inspections**
- **Role based Training assignments**



Safety Management System (SMS)

- **Hazard Reporting**
- **Risk Assessment**
- **Risk Acceptance**
- **Mitigations**
- **Safety Review Meetings (SRM)**



OPERATIONS

Snow & Ice Control



Snow Equipment & Material Management

- Role based Training assignments
- Location-based on Airport
- Runway Condition Assessment
- Snow Desk Portal
- Available Material




Snow Ops Performance Tracking

- Available Equipment Status
- Available Staff
- First on / Last off timing
- Equipment / Training Match
- GIS Mapping
- Weather



Snow & Ice Control

Home

 **Beatrice N.**

Snow Module

MONDAY 11:42 AM

-5°

Snowing all day

68% Humidity

5 mph Wind

1 km Visibility

1012.98 Pressure

Snow Event Log

DATE	USER/EMAIL	TITLE/NOTES	STATUS/ISSUE
06/05/2022	Chad Reynolds	Inspections	Inspection completed
06/05/2022	Chad Reynolds	Inspections	Inspection completed
06/05/2022	Chad Reynolds	Inspections	Inspection completed
06/05/2022	Chad Reynolds	Inspections	Inspection completed
06/05/2022	Chad Reynolds	Inspections	Inspection completed
06/05/2022	Chad Reynolds	Inspections	Inspection completed

Airfield Condition Reporting

SURFACED	IN	MP	BT	STATUS
Runway 17L/35R	15	10	2	Closed
TWYC	-	-	-	Open
Runway 17L/35R	15	10	2	Closed
TWYC	-	-	-	Open
Runway 17L/35R	15	10	2	Closed
TWYC	-	-	-	Open


Inventory

- Liquid deicing fluid bulk
- Sand 50 lb bags
- Ice melt 50 lb bags
- Sand bulk
- Ice melt bulk

Preventative Maintenance Tasks

- Snow equipment
Mon, Feb 28
- Other equipment
Wed, Feb 23

Snow Clearing Ops - Live Map



Operator Call Out

ADDRESS	CALLER	ON SITE EST. TIME	ON SITE
Qatar Airways	Y	06/05/2022 13:00	Y
Regional Express	N	06/05/2022 13:00	Y
Qatar Airways	Y	06/05/2022 13:00	Y
Regional Express	N	06/05/2022 13:00	Y

Useful Links

- [Visual NOTAMS](#)
- [Traffic Conditions](#)

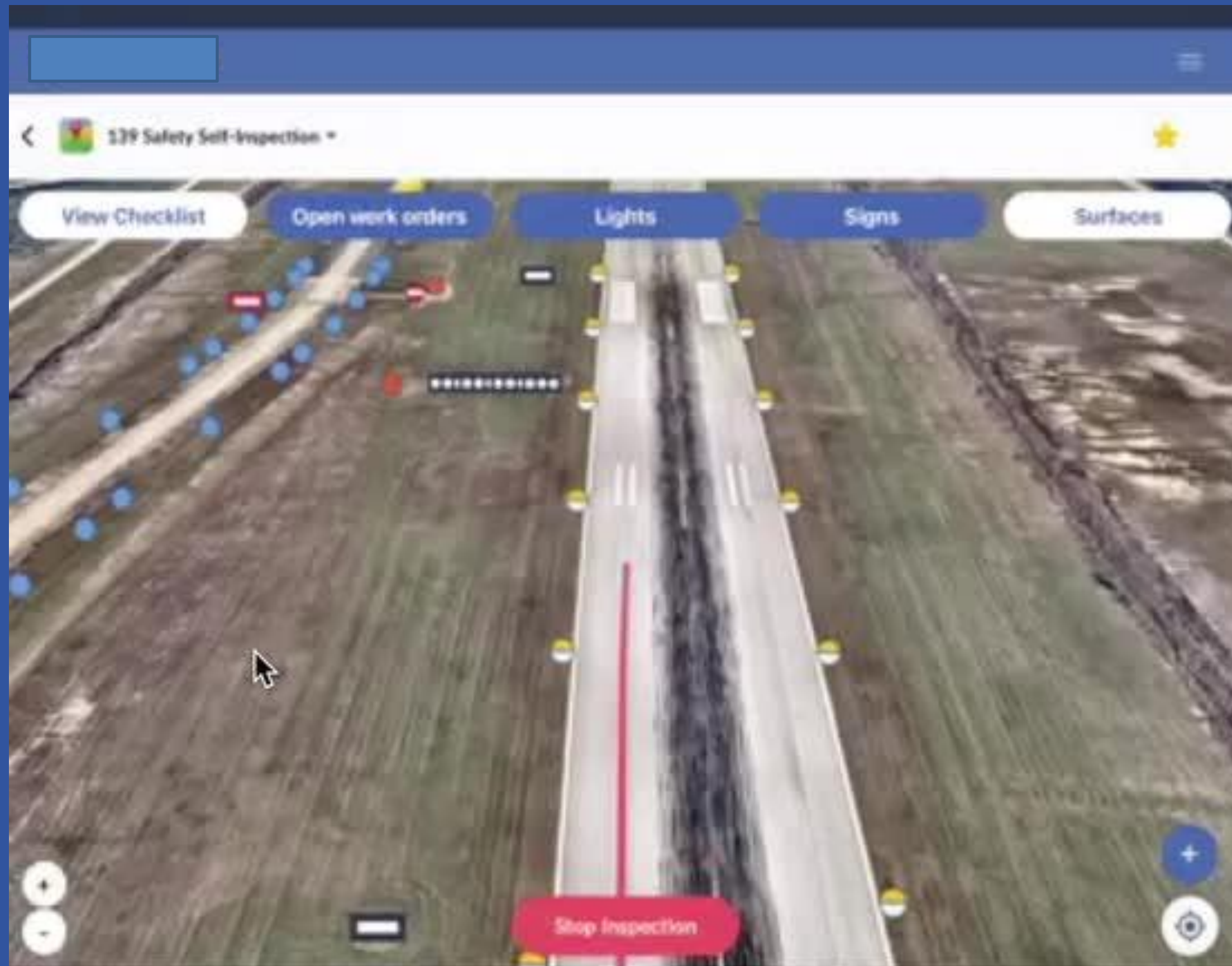
Inspections/Checklists

- Task name is here 11:20 AM
- Task name is here 1:00 PM
- Task name is here 11:20 AM
- Task name is here 1:00 PM
- Task name is here 11:20 AM
- Task name is here 1:00 PM

Forms

- Form Name
- Form Name
- Form Name

NAVIGATOR APP TRACKS THE ROUTE DURING INSPECTION



LOOK FOR APPs THAT TRACK THE ROUTE DURING INSPECTION


Inspections Bulk Export Settings Blue Grass Airport Vishu Rao

Inspections Bulk Export Settings

AIRPORT SAFETY SELF-INSPECTION CHECKLIST

< Back

Inspection Route



As the Ops person navigates the route of the inspection, voice notifications are provided related to open WOs

WILDLIFE LOG

Wildlife Waco Regional Airport Vishu Rao

Dashboard Wildlife Log FAA Strike Report Settings

Dashboard

All Logs (884) January 1, 2021 - July 29, 2021

Wildlife Species Overview

● Mammal
● Birds

Wildlife Sightings Map

Filters Individual Sightings Clustering

Google Imagery ©2021, Maxar Technologies, USDA Farm Service Agency Terms of Use Report a map error

Frequently found species

Wildlife Incidents on Airfield

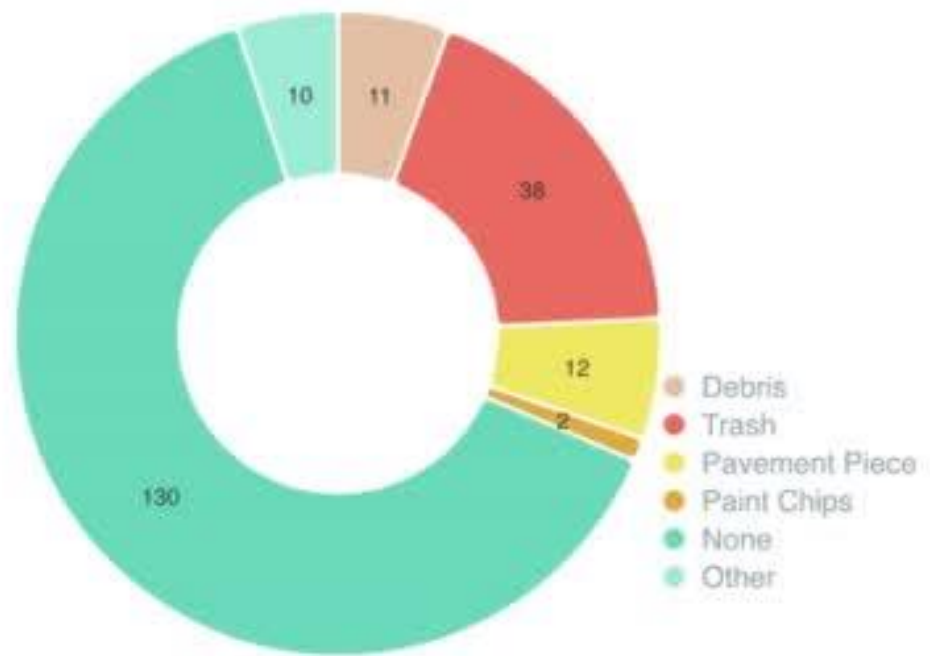
FOD LOG

Dashboard

All Logs (203)

March 1, 2021 - July 29, 2021

Category



FOD Log Map

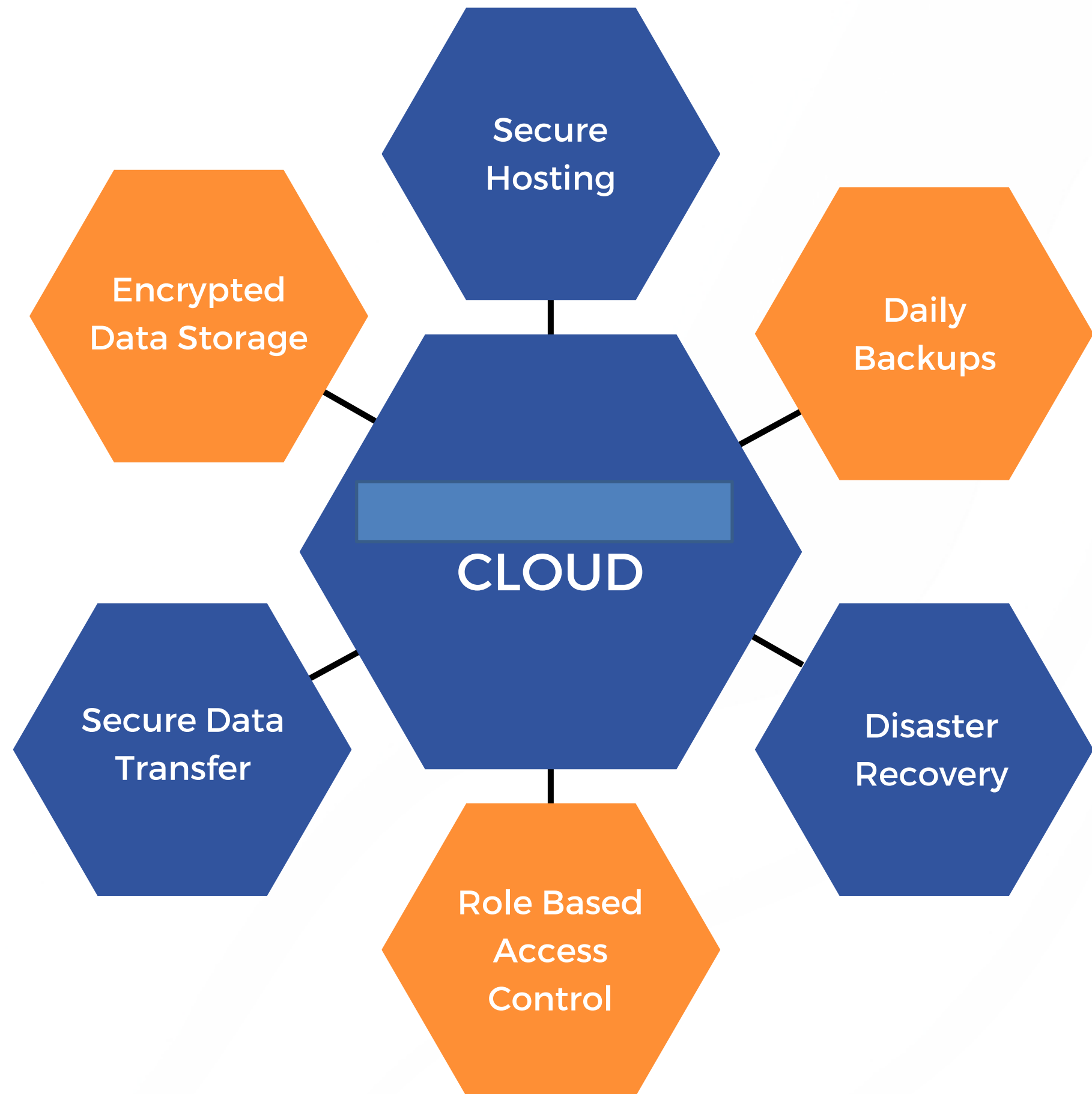


Possible Source

Location Area

DATA SECURITY

Airports should always own their data and have access to download information in PDF and Excel formats on a periodic basis.



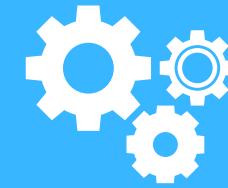
1
Unlimited Users



2
Unlimited Modules



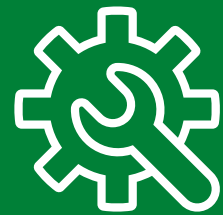
3
No Setup Fees



4
No Hardware to maintain



5
Configurable



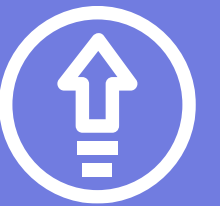
6
Easy to use



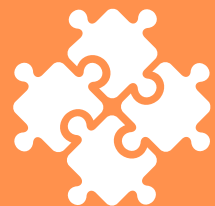
7
**Offline capable
Mobile Apps**



8
Weekly Upgrades



9
**Integrate with other
systems**



10
Updated GIS Maps



11
24 x 7 Support



Benefits

- 01 Improved efficiency. Eliminate duplicate paperwork.
- 02 Everyone is on the same page. Real-time insights.
- 03 Cost Savings.
- 04 Excel at annual regulatory inspections.
- 05 Identify recurring issues. Become Proactive rather than Reactive.
- 06 Ask for a free trial.



Things to watch out for

- 01 Per seat software cost – no flexibility with new staff hires – and annual budget changes
- 02 Don't provide a true mobile Native app solution – web use for mobile limits usage
- 03 The software doesn't allow you to create new checklist & forms (and they charge you to create checklist and forms for you)
- 04 Complex software that requires a full-time staff person to manage
- 05 Won't provide you the data you created and own, if you switch solutions
- 06 They don't add free new features to meet your needs and requirements





Thank You

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