

City Of Phoenix Aviation Department
Business Education Series

Airport Technology and Innovation @ City of Phoenix Airport System

December 12, 2024

PHX DVT BYR

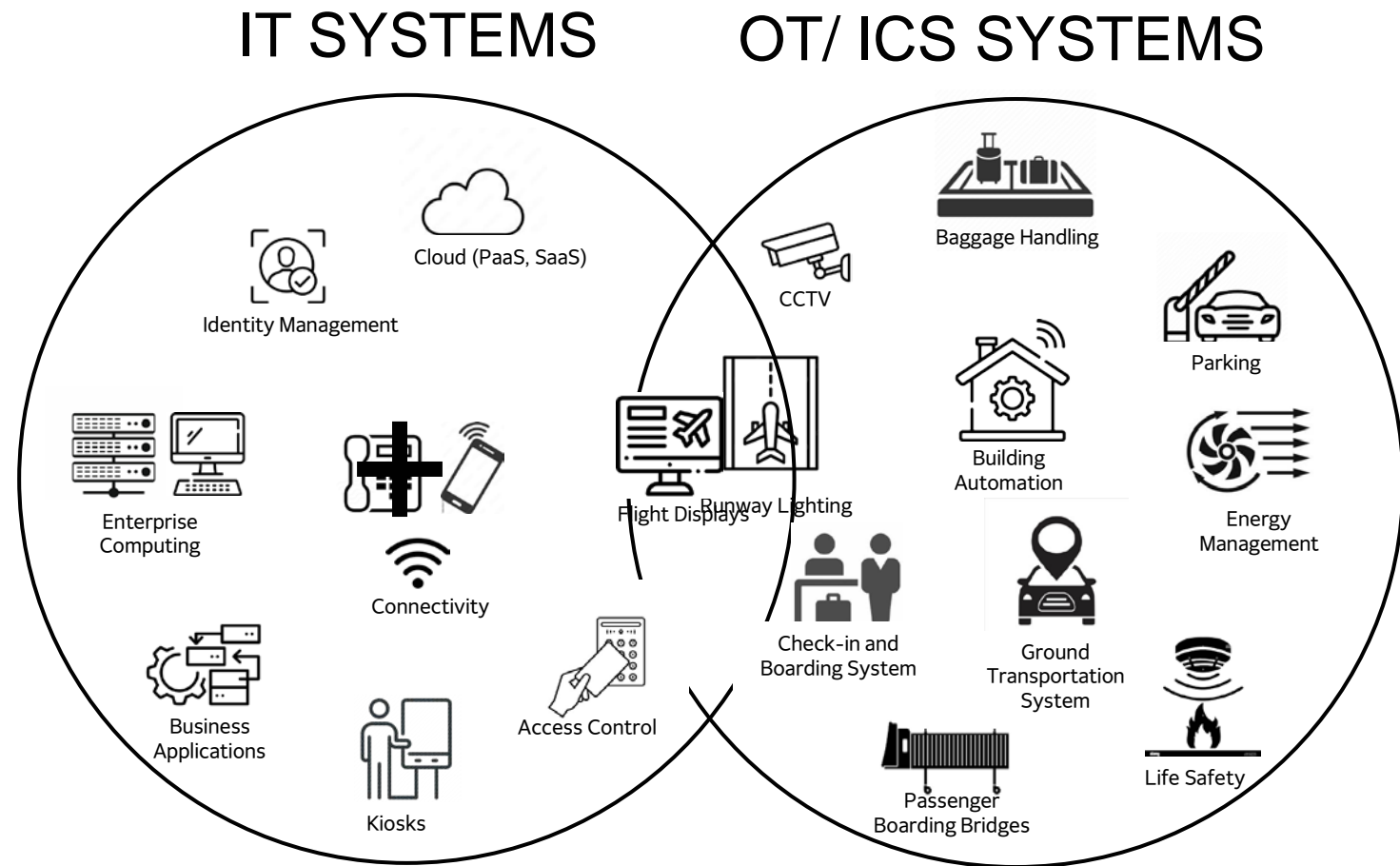


AGENDA

- Airport Technology
- Organization
- Technology @ Work at PHX, DVT and GYR
- IT Procurement and Contracting
- Upcoming Opportunities
- Resources



Airport Technology Landscape



Key Technology Domains



Business Applications



Passenger Processing Systems



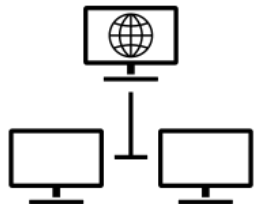
Airport Systems



Digital Services



Geographic Information System



Network Infrastructure



Server, Storage & Data Center Administration



Client Computing & Desktop Support



Project Management



Cybersecurity



Organization



Daver Malik



Mike Gander
Network Engineering Services



Jamie Ritchie
Client Computing & Airport Systems



Ram Chirumamilla
Business Applications & GIS



Ben Armour
Infrastructure & Cybersecurity



Genie Usher
Administrative Services



Drew Douglas
Project Management Office





TECHNOLOGY AT WORK @ PHX, DVT, GYR



A perspective view of a server room aisle. The aisle is flanked by rows of server racks on both sides. The lighting is a deep blue, with bright vertical strips of light along the edges of the racks and horizontal strips of light on the ceiling. The perspective leads the eye down the center of the aisle towards a vanishing point in the distance.

IT Infrastructure Administration

Servers, Storage, Backups
(On-Prem and Cloud)

Airport-wide Network Services

MPLS Network

IDF/ MDF/ TR/ CR rooms



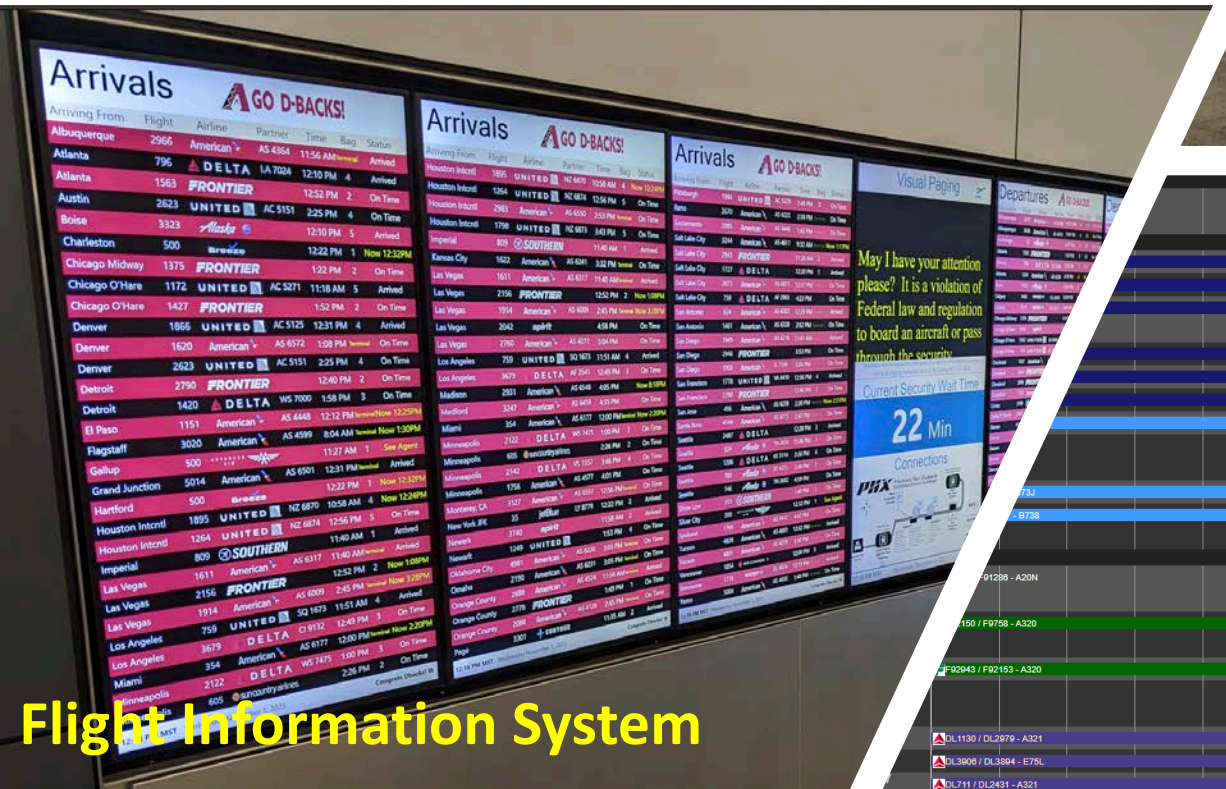
Passenger Facing Technology



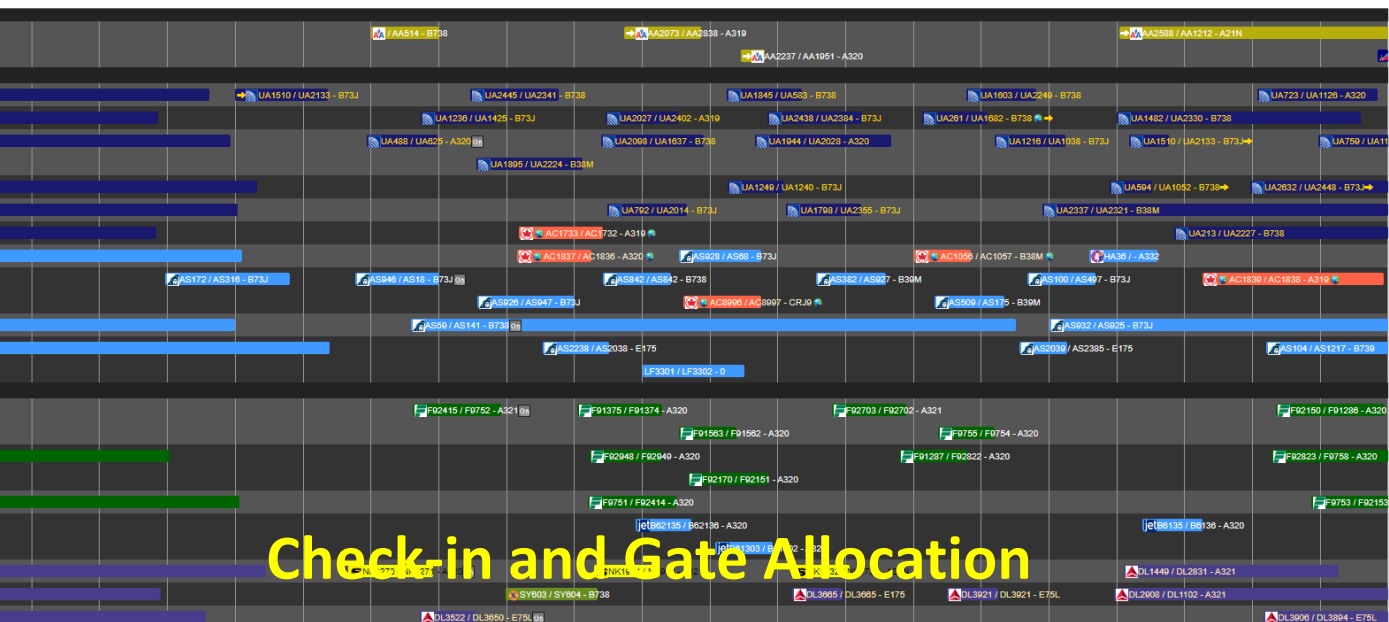
Common Use Check-in System



Common Use Boarding System



Flight Information System



Check-in and Gate Allocation

Public Address System



Parking Revenue Control System



Ground Transportation Management System



Airport CCTV System

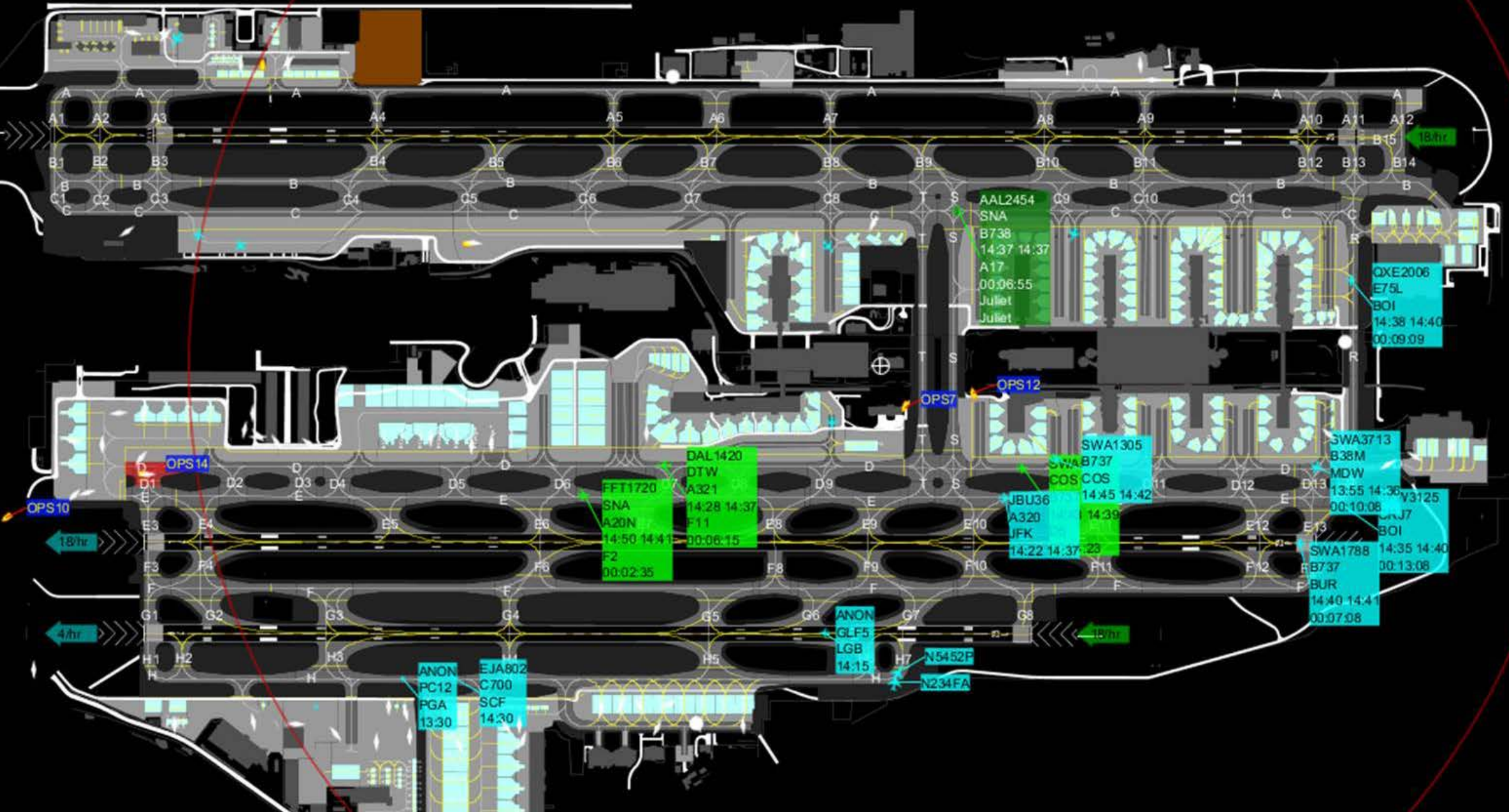


Airport Operations Center

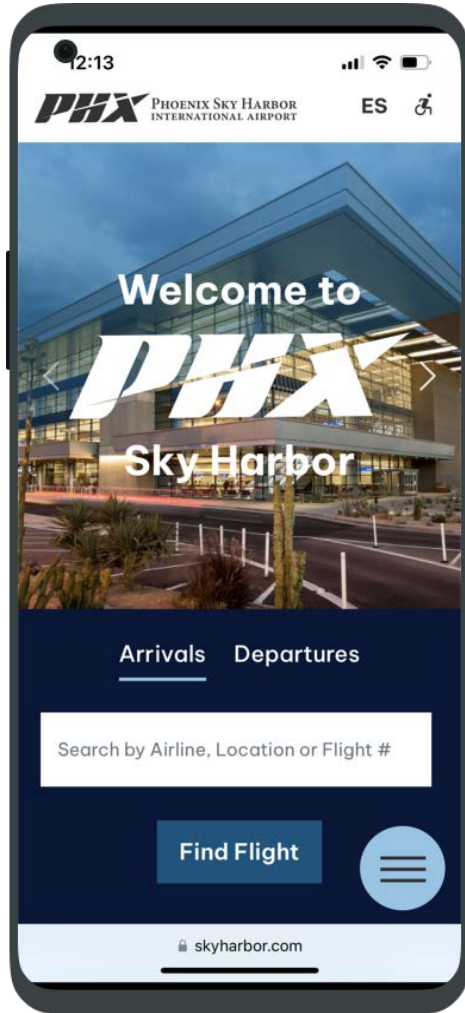
Audio/Visual
Radio Communication
Dispatch
Video Wall
Conferencing
IT/OT Systems



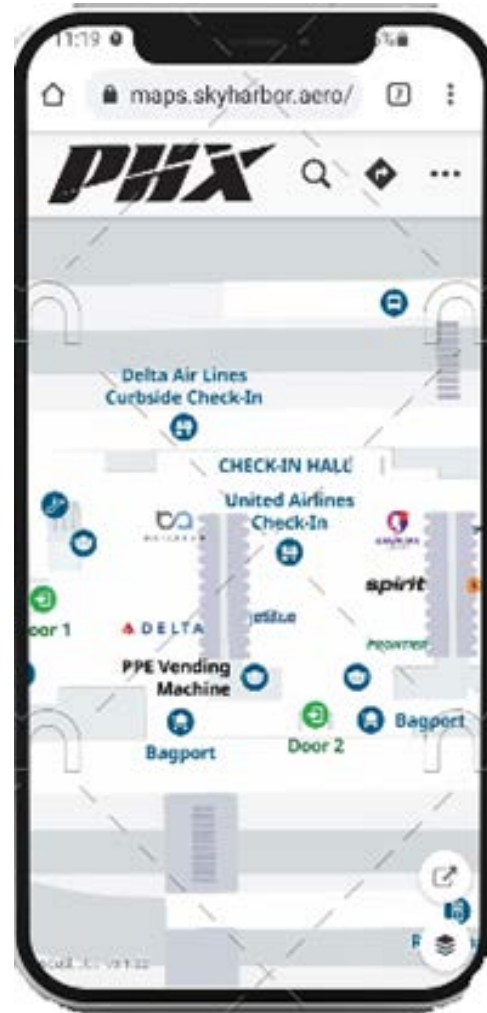
Surface Management



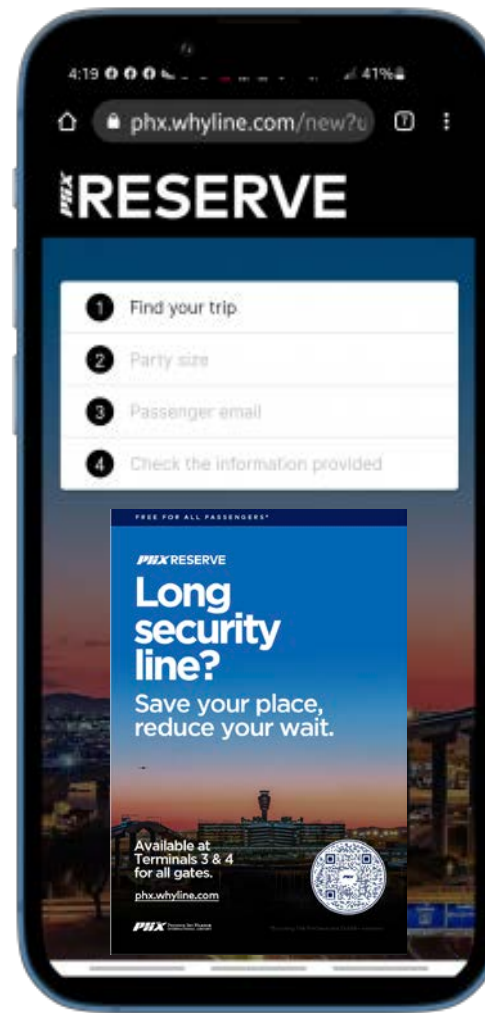
“Mobile-First” Digital Services



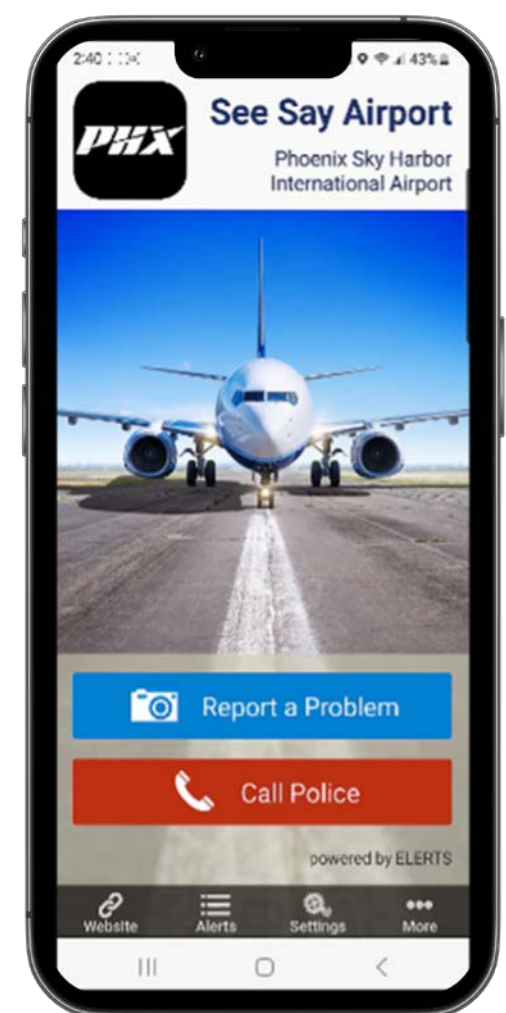
Sky Harbor website



PHX Interactive Digital Map



PHX *RESERVE* Virtual Queueing



ELERTS "See Say" App

GIS Applications

Recent Inspections

Daily November 29, 2023-1st Shift
Randy Anderson
Discrepancies : 0

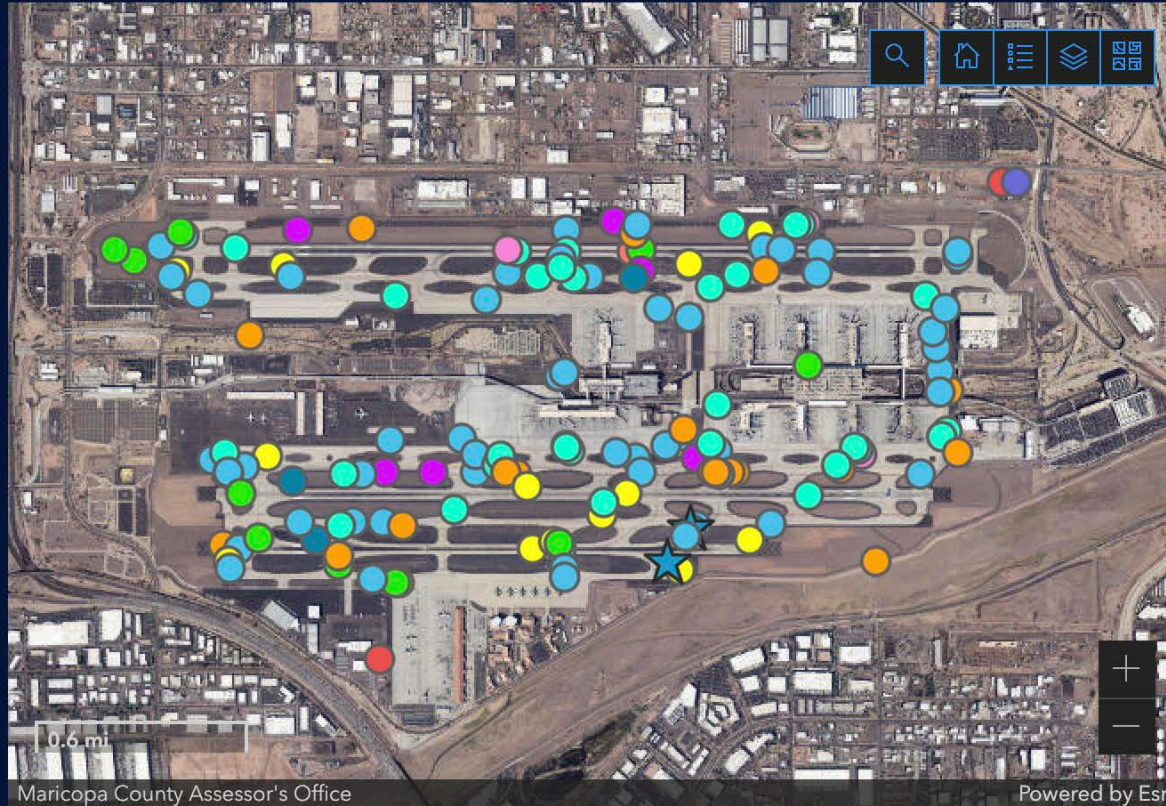
Special November 29, 2023-1st Shift
Randy Anderson
Discrepancies : 0

Special November 28, 2023-1st Shift
Walter Peoples
Discrepancies : 1

Daily November 28, 2023-1st Shift
Walter Peoples
Discrepancies : 1

Inspection Details

Paved Areas: Satisfactory
Safety Areas: Satisfactory
Lighting: Satisfactory
Marking: Satisfactory
Signs: Satisfactory
Snow: N/A
ARFF: Satisfactory
Fueling Operations Facility: Satisfactory
Fueling Operations Vehicles: Satisfactory



Discrepancies

Select an Inspection to Filter

PT139 MARKINGS : Edge Line
Work Order: Yes / ID:
Unsatisfactory: Markings not to Standards
Walter Peoples - November 28, 2023 (1 Days)
Scheduled

PT139 MARKINGS : Edge Line
Work Order: Yes / ID:
Unsatisfactory: Markings not to Standards
Walter Peoples - November 28, 2023 (1 Days)
Scheduled

PT139 MARKINGS : Hold Position Mkg
Work Order: Yes / ID:
Unsatisfactory: Faded
Mike Portik - November 21, 2023 (8 Days)
Scheduled

PT139 MARKINGS : Enhanced Centerline
Work Order: Yes / ID:
Unsatisfactory: Chipping/Flaking
Mike Portik - November 20, 2023 (9 Days)
Scheduled

Discrepancy List

Discrepancy Details

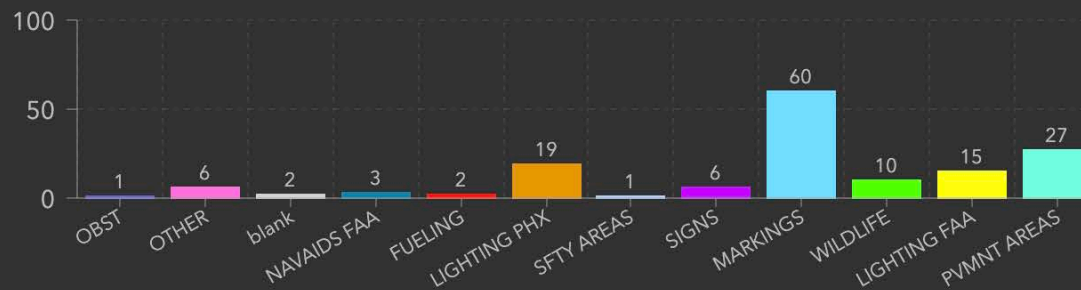
Discrepancy Counts

15 Emergency
113 Scheduled
22 Same Day

152
Total

2
Ready for Reinspection

Part 139 Inspection Dashboard



Discrepancy Type

Inspection Count

Daily Inspection

Other Inspection



TECHNOLOGY SOURCING AND WAYS TO ENGAGE



IT Sourcing Needs

1



Commercial-Off-The-Shelf (COTS)

- Life Cycle replacement
- Hardware (Servers, Storage, Network, Computers, etc.)
- Software (GIS, ERP, MS Office, Windows OS, Asset Management, etc.)

2



Airport IT Systems

- Airport Operational Systems
- Passenger Processing Systems
- Industrial Control Systems

3



Technical IT Staffing

- Contract staffing in various IT domains
- Desktop Support
 - Application Development
 - Network Engineering
 - Systems Engineering
 - Database Administration
 - Cybersecurity
 - GIS, etc.

4



Professional Services

- Project Management Services
- Technology Consulting Services
- Turnkey/SOW-based services

5



Maintenance and Tech Support

- Ongoing maintenance for various IT/OT systems
- L1/L2 break-fix services
- Boots on the ground
- Technician-level resources



Procurement Types

- Request for Quotes (RFQ)
- Invitation for Bids (IFB)
- Request for Proposals (RFP)
- Request for Qualifications (RFQu)
- Revenue Contract Solicitation (RCS)
- City of Phoenix Qualified Vendor Lists (QVL)

Central Point of
Contact

Aviation Contracts &
services



Subject Matter
Expert

Aviation IT



Airport Construction Projects

- Systems and Technologies
- Low voltage infrastructure
- Master Systems Integrator

Common Use Systems (Check-in, Kiosks, Boarding)
Access Control System
Baggage Handling System
Flight Information Displays
Baggage/Gate Display System
Dynamic Signage
Queue Wait Time System
Automated Vehicle Identification
Network Expansion (Cable Plant, Switching, Routing)
Public Address System
Parking Revenue Control System
Passenger Emergency Duress System
CCTV
Wi-Fi
DAS

Design, Procurement, Installation, Testing
and Commissioning of systems



Cooperative Procurements



Information Technology
Solutions & Services Contract

Network and Telephony
Equipment & Service Contract



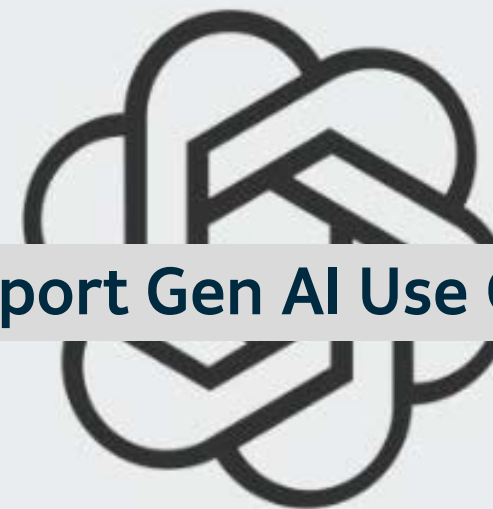
Upcoming Opportunities

- IT Project Management Services
- Airport Technology Consulting Services
- CCTV System Maintenance Services
- Passenger Emergency Duress System (PEDS) Replacement
- Digital Content Management System
- Customer Relationship Management Implementation (CRM)
- Terminal 3 N2 Concourse (Construction project)
- Terminal 3 Optimization (Construction project) – Self Bag Drop
- Baggage Handling Optimization (Construction project)



Areas of Innovation partnerships

Computer Vision



Airport Gen AI Use Cases



Data and Analytics Center of Excellence



Machine Learning

RESOURCES

Register as a Vendor:



Monitor Current Solicitations:



Get Small Business Certification Info:



Learn About Outreach Events:



Have More Questions? Contact Us



busopps.aviation@phoenix.gov



(602) 273-3390

Visit Our Business Website:

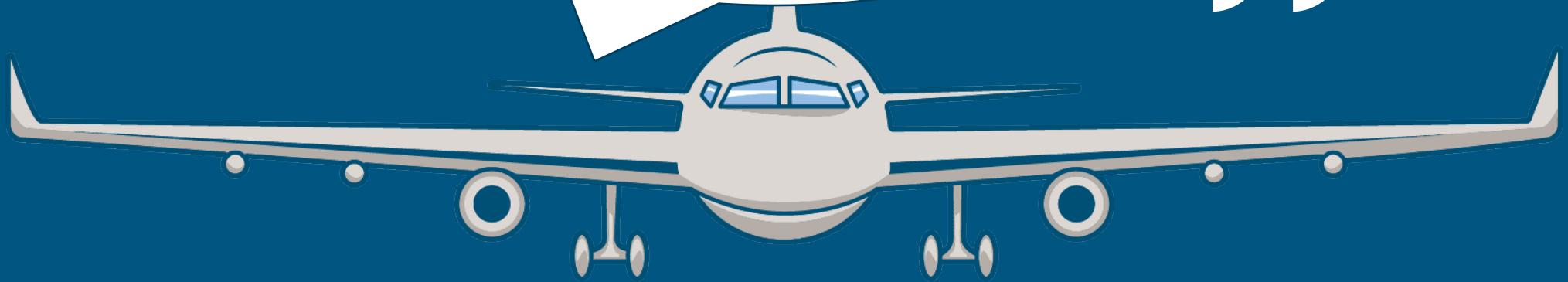


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Questions?

Please type them in
the chat box.

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PHOENIX SKY HARBOR
INTERNATIONAL AIRPORT

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THANK YOU



ALL ABOUT AVIATION

Business Education Series

PHX DVT EYR

