LED Lights and the ArcGIS Platform, Driving the Airport of the Future

Combination of this IPS and the ArcGIS platform

David Wright- Atlanta Airport
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The Solutions

Interactive Occupant (iO) Application

Analytics Dashboard

Asset Tracking
Capabilities

**Asset Tracking**
- Hardware
- Service Equipment
- Predictive Maintenance
- Personnel

**Space Mgmt. & Utilization**
- Building Utilization
- Parking
- Interior Space Planning
- Hoteling

**Occupant Management**
- Comfort (AC)
- Connectivity (Wi-Fi)
- Productivity (“Dynamic Lighting”/circadian rhythms)

**Situational Awareness**
- Dwell Times/Traffic Patterns
- Shot Detection
- Firearm Tracking

**Energy Savings**
- Unified Building Management Systems (BMS)
- Zero Light Maintenance
- 40% Energy Reduction

**Analytics & Data Sciences**
- Insights
GIS and IoT

How it works

Devices, Things, Sensors

Communication Technology

Positioning, Analytics, Mapping Platform

Web, Tablet, Mobile Dashboards
Smart Airports

Demonstration

Analytics

- Insights
- Dwell Times
- Traffic Patterns
- Navigation
Smart Airports Demonstration

Analytics
- Insights
- Dwell Times
- Traffic Patterns
- Navigation
Smart Airports

Enterprise Approach

✓ Strategic planning and visioning
✓ Designed roadmap and phased implementation
✓ Complete infrastructure re-design for Smart Airports
✓ Host on private Cloud Services
✓ Consumed and curated by airport personnel
✓ Managed and maintained by GISinc
✓ Knowledge transfer and continued support
Smart Airports

Cloud Hub

- Internet Gateway
- NAT Server
- Web Adapter for AGS RD Gateway
- Public Subnet 1 10.0.0.0/24
- Bastion Server - 1 ArcGIS Desktop
- Bastion Server - 2 ArcGIS Desktop
- Private Subnet 2 10.0.1.0/24
- ArcGIS Server
- SQL Server Data Store
- Availability Zone A
- VPC 10.0.0.16
- US East Region
Smart Airports

Let’s take a look
Smart Airports
Situational Awareness & Emergency Response
Next Steps
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