

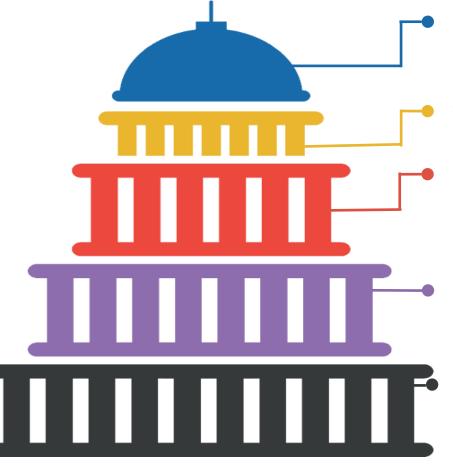
### **Discussion Outline**



- **⊘** OST Background
- The Complex Aspect of Civil Aviation
- Smart Airport Eco-System
- Our Value Proposition
- ♥ Conclusion

## Who We Are





#### WHO WE SERVE

80% Federal Government20% State and Local Government

#### **TOP SECRET**

**Facility Clearance** 

#### **CERTIFICATIONS & APPRAISALS**

CMMI Level 5 | CMMI Service Level 3 ITIL V3-1 | SAFe/Agile/DevSecOps | AWS Cloud ISO:9001:2008 | ISO standards 27001, 20000, 10002

#### **OUR KEY CUSTOMERS**

- Federal Army, Air Force, Navy, FAA, FEMA, FTA, DOE, IRS,
- State & Local: DC, MD, VA, PA

#### **CENTER OF ENGINEERING & INNOVATION**

- Cyber and Smart Initiatives
- Engineering Complex Solutions
- Disruptive Transformation & Innovation































Supporting Federal, State, Local











## **OST's Key Presence**



#### OST brings over 19 years of DOT and FAA experience with in-depth knowledge of their programs, requirements and procedures

- 125+ FAA contracts (task orders)
- Shared Services for the CIO's Office supporting 50 + Mission Critical Systems, Maintaining & Transitioning Data Centers
- ✓ IMS/Budget Support to NextGen Office (ANG)
- Supporting the Enterprise Network Operations (ENOCC) & Cyber Security
- ✓ FAA Asset Management (Real & Personal property \$9+ Billion)
- ✓ Engineering Services to support the NAS including Spectrum Management, VOR/MON, DME/DME, etc.
- Financial & Capitalization Support Services
- Airports Subsidies and Grants process

#### Over a decade of DHS experience (FEMA, CBP, IECRS)

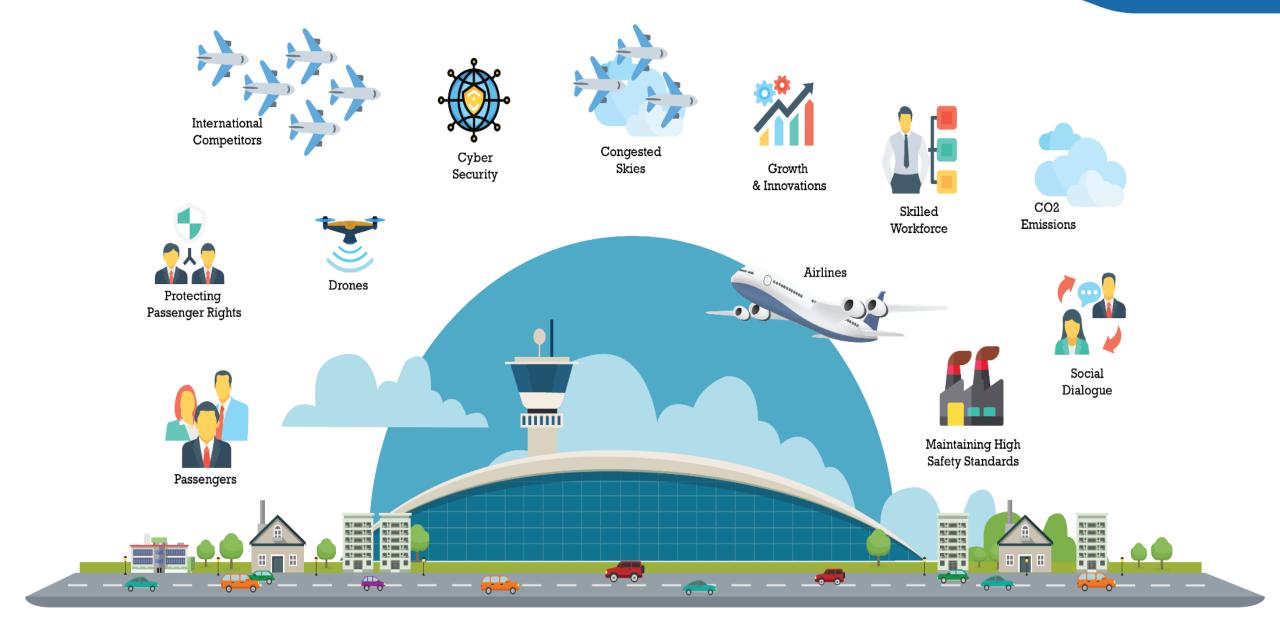
- FEMA Disaster Management, Risk Mitigation, Cyber Security, IT Solutions, Legacy Modernization
- ✓ CBP Network modernization efforts to provide secured and un-secured network segmentations.
- ✓ IECRS- Architected IECRS Infrastructure for Public Agencies world-wide (911, NG911, NENA).

#### 10 Years experience in Private Financing / Public Private Partnership (P3/P4)

- Bring unique combination of innovative technology and financial solutions

## The Complex Aspects of Civil Aviation



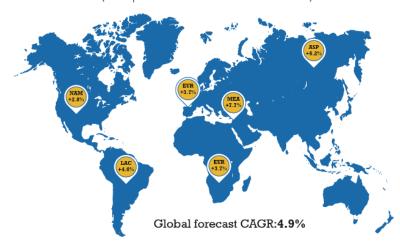


### **Aviation Facts...**

### A need for smarter airports



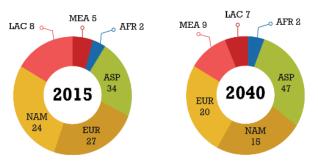
(Compounded Annual Growth Rate)





## **14 billion** by 2029

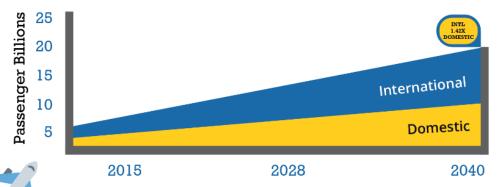
Market Share(%) by region





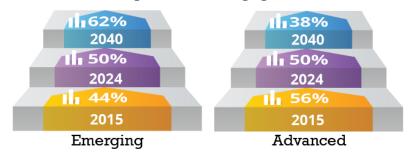
### International passenger traffic

will surpass domestic traffic after 2028 Passenger Billions



### Future growth in air passenger traffic

will originate from emerging markets



#### Long-term cargo and movement growth

(CAGR 2015-2040)



**Smart Airport Ecosystem** 

Airlines, Airports, Cargo & Passengers







# **Environmental Sustainability**

- **⊗** LED Lighting
- **⊗** Smart Poles
- **⊘** Green Buildings
- Sensors: Air, Noise, Video, Light monitoring



### **Safety & Security**

- **⊘** Video/ Scene Analytics
- Smart Resiliency planning
- **♥** Flood Abatement
- Smart Health Services



### **Operational Optimization**

- **⊗** Smart Parking
- Advanced Network architecture
- **⊘** Personalized Wayfinding
- Central operations management platform



#### **Financing Solutions**

- ♥ Up to 100% of capital investment
- Assist in obtaining International, Federal & State grants
- **⊘** Reduce expenses
- **⊘** Revenue generation

## **Environmental Sustainability**



### **Features and benefits**

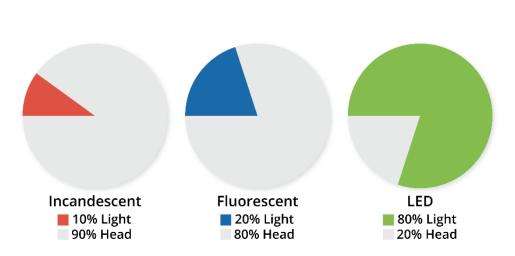
**⊘** Smart Poles with Integrated Solutions

✓ Smart LED Lighting & Wi-Fi / Li-Fi

**⊘** Renewable Energy – EV, Solar, WTE, CoGen Plants, etc.

LEED Certified – Centralized HVAC/Chillers, Glass Panels,

**⊘** Intelligent Transportation Management System





OST Proprietary and Confidential OST | 8

## Safety & Security



#### **Features and benefits**

- **▼** Reactive, Proactive, Predictive, Preventive
- → Better emergency preparedness (Faster)
- Automated Inspections Aircraft, Terminal, Runway,
- ✓ Integrated Cyber and physical security solutions
- ✓ Video Analytics (AI/ML)
  - Static object detection, Suspicious packages, etc.
  - Machine learning based analytics
  - Foot traffic analysis
  - Queue detection
  - Facial recognition
  - Traffic monitoring
  - Incident analysis
  - Vehicle counting
  - License plate readers







## **Operational Optimization**



#### **Features and benefits**

- Horizontal IoT platform
- Critical infrastructure monitoring and control
- Real time reporting and analytics
- Improved decision maker response time











## **Unified Platform for Smart Airport**

CONVERGING MISSION, INNOVATION, AND TECHNOLOGY

(Advanced Analytics - Monitoring and Controlling)

Real Time Control Panel Datawarehouse /BI Tool Rules Service Custom Dashboards

Asset Monitoring Open Data

Presentation Layer













Cloud Layer (Structured, Un-structured and Semi-Structured Data)

### **IoT Platform**

(Advanced Analytics, Artificial Intelligence & Machine Learning)

Integration Layer



### Legacy & Modern Systems



Airlines



Cyber



Drones Inspection



Incidents Reporting



**Passengers** 



Environmental



Flood

## **Our Value Proposition**



### Private Investment

- ✓ Up to 100% Capital Investment (5 to 30 years)

#### **Centre of Excellence & Innovation**

- Collaboration with HEIs (HBCU's, AAU & APLU)
- Partnership with leading global nonprofit organizations
- - ✓ Artificial Intelligence
  - Machine Learning
  - Smart Infrastructure
  - Aviation (CDRA with FAA)



#### Uses service model

- "Solution as a Service"
- ✓ No cost technology upgrades
- ✓ Increased quality of service to citizens

#### Team of established vendors

Covering Technical, Engineering,
Financial, Advisory, Socio-Economic,
& Educational domains





#### **Leverage Federal Grants & Subsidies**

Assist in obtaining Federal grants and subsidies from federal agencies - DOT, DOE, EPA, DHS, etc.































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