

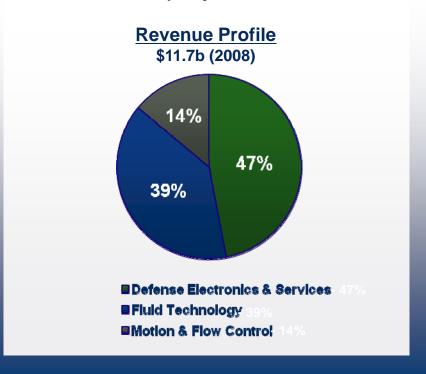
# U.S. ADS-B Ground Infrastructure Program

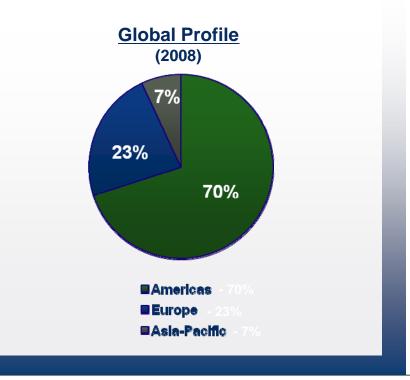
January 28, 2010

Engineered for life

#### ITT - At a Glance

- A global, diversified manufacturing and engineering company headquartered in White Plains, NY
- A Fortune 300 company
- 40,000+ employees in 50 countries





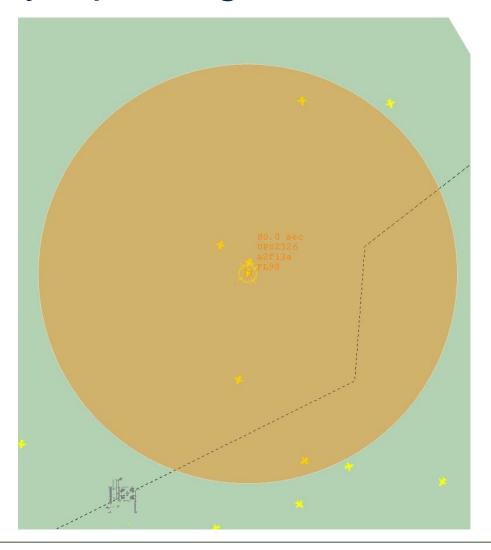


# ADS-B is a Vital Element of the Next Generation Air Transportation System

- Why Automatic Dependent Surveillance Broadcast (ADS-B)
  - Lower cost, more accurate and more frequently updating surveillance infrastructure
  - Allows surveillance deployment where previously not possible, e.g. Gulf of Mexico
  - Provides vehicle for safety services to the cockpit
  - Provides unprecedented pilot situational awareness
  - Enabler of air traffic control procedures that will provide increased airspace capacity and efficiency

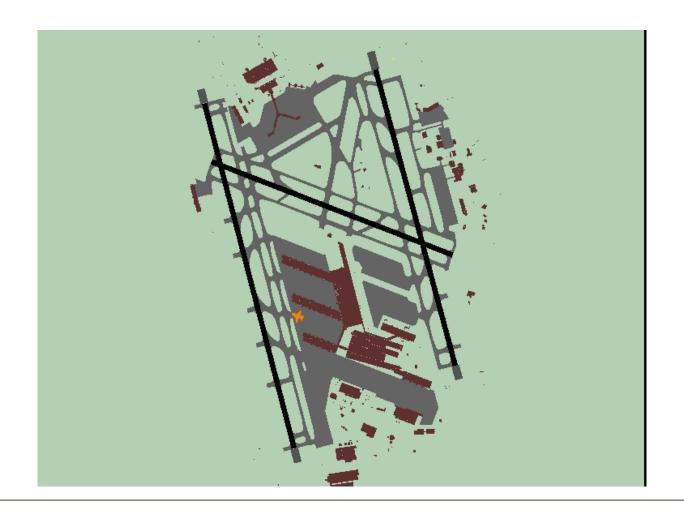


# Lower Cost, More Accurate and More Frequently Updating Surveillance



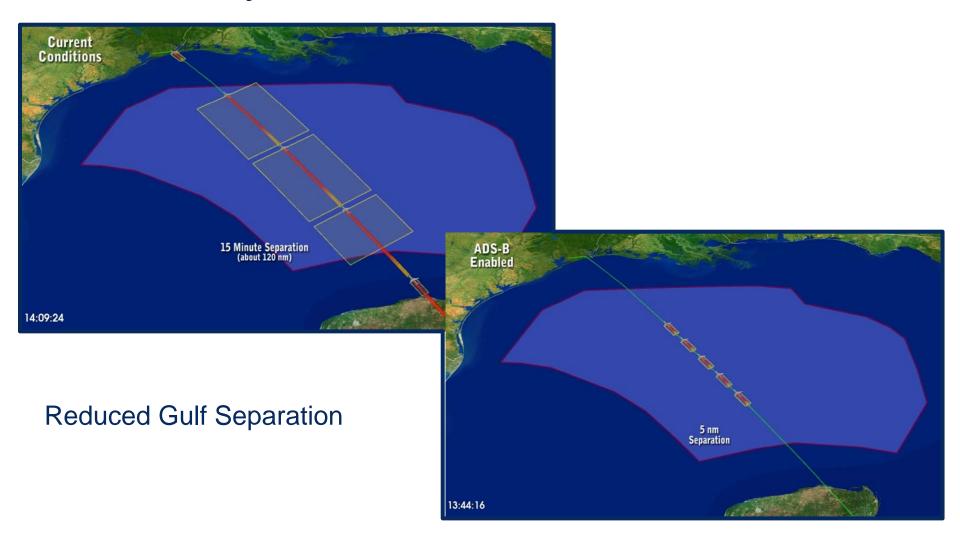


### Unprecedented Surveillance Coverage





### Surveillance Deployment Where Not Previously Possible – Substantial Benefit





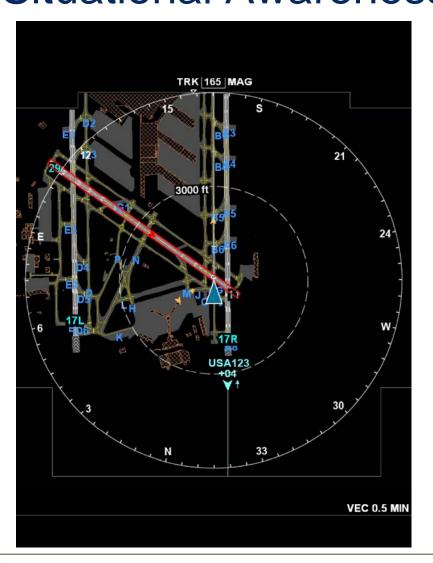
# Broadcast Services Deliver Vital Safety Services to the Cockpit







## The Technology Provides Unprecedented Situational Awareness



# Surface Situational Awareness With Indications and Alerts

Image of SafeRoute-SAMM™
(Surface Area Movement
Management) display
courtesy of ACSS



### Enabler of Advanced Air Traffic Control Procedures



### Interval Management Application

Image of SafeRoute-M&S™ (Merging & Spacing) display courtesy of ACSS

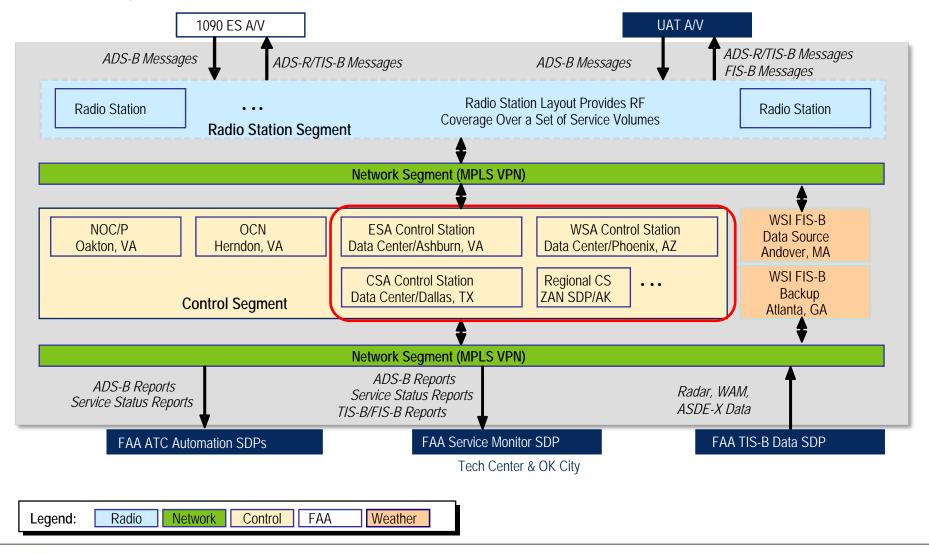


### ITT Corporation is Deploying ADS-B Ground Infrastructure in Support of the FAA

- ADS-B requires ground infrastructure
  - Collection of ADS-B reports and distribution to ATC facilities
  - Collection, processing and broadcast of TIS-B and FIS-B data
- ITT was awarded the ground infrastructure contract on the basis of a cost effective exceptional technical solution
- Base contract Design, Development, Key Site Testing,
   Significant Broadcast Services Deployment
- Optional Contract Line Items for nation wide deployment and operations and maintenance of the system through 2025
  - Deployment capital expense funded by ITT
  - Nationwide deployment has begun

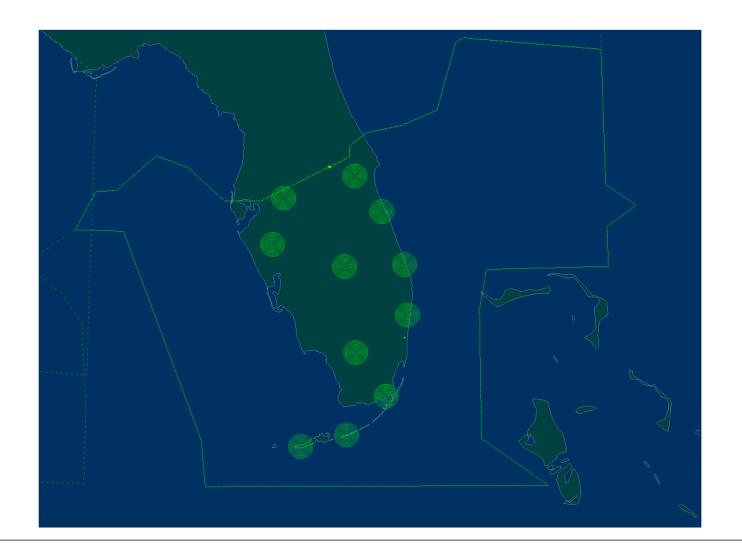


### The Ground System Architecture – Robust, Safe, and Secure



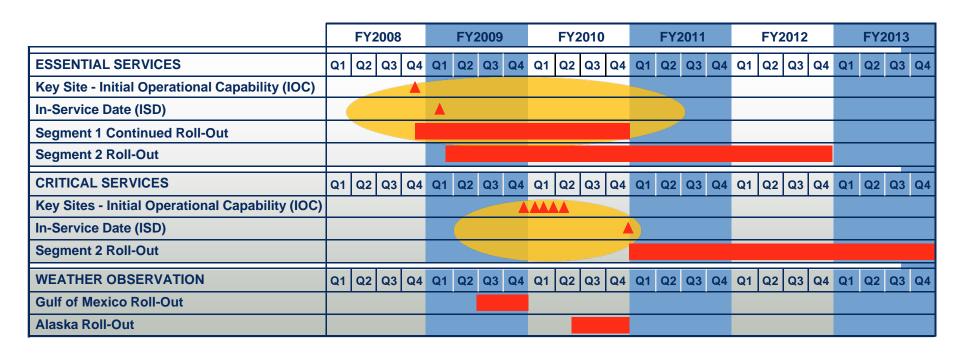


#### A Networked Architecture





### ADS-B Program Ground Infrastructure Schedule





### **Key Site Status**

Key Site	ITT SAT Date	SAT Status	FAA IOC Date	IOC Status
Miami En Route (Essential Services)	May 2008	Complete – May 2008	August 2008	Complete – August 2008
Louisville Terminal and Surface	April 2009	Complete – April 2009	October 2009	Complete – November 2009
Gulf of Mexico	June 2009	Complete – June 2009	December 2009	Complete – December 2009
Philadelphia Terminal and Surface	August 2009	Complete – August 2009	February 2010	In Progress
Juneau	October 2009	Complete – October 2009	April 2010	In Progress

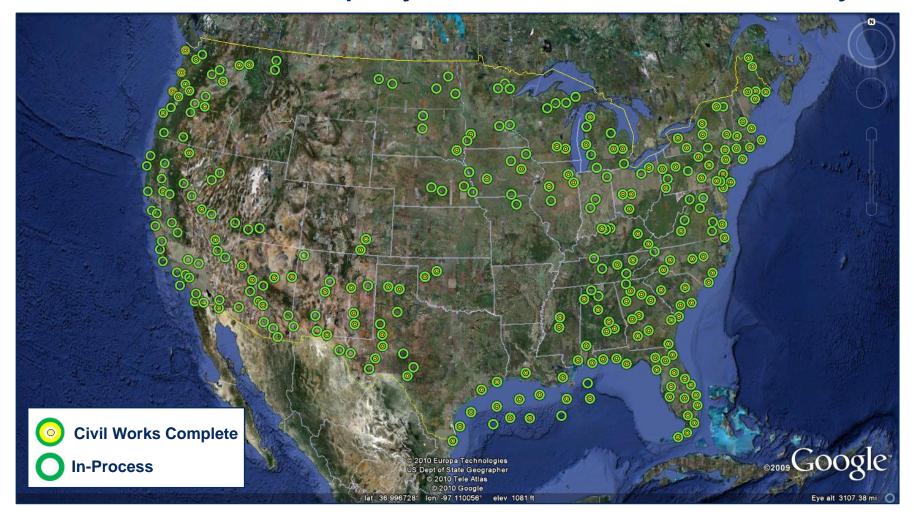


# High Altitude Coverage from 27 Key Site Radio Stations





#### U.S. National Deployment is Well Underway





### A Typical Airport Site



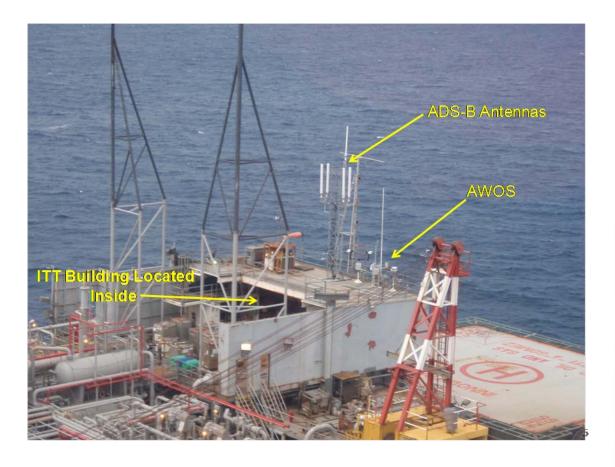


### A Typical Co-Location





#### Oil Platform Installation – ATP Innovator



**ADS-B Radios** 





#### Conclusion

- ADS-B Technology is proven
- The ITT solution is delivering outstanding performance and is robust, scalable, safe and secure
- We are very appreciative of having the opportunity to discuss our work with the Aviation Cooperation Panel

