# Emerging Markets: Unmanned Aircraft Systems (UAS)

**Opportunities and Challenges** 

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## **Growth Projections**



- Worldwide Estimates Predict UAS Market at Close to \$55B by 2017
- UAS Represent Largest Area of Growth for Aerospace Industry
- Significant US Military Market
  - 73% of Worldwide RDT&E Spending
  - 59% of Total Procurement Dollars



**Source: Teal Group 2008 UAV Market Study** 

### **Environment**



- FAA Projecting Significant Growth in Air Traffic
- With Growth comes Complexity & Challenges
- New Industry Segments Require Rethinking Today's Way of Doing Business
  - VLJ's, UAS



#### What about the Civil Market?



- Strong Industry Interest in This Growth Segment
- Civil Government Spending on UAS Solutions Represents Largest Growth Area
  - Border Surveillance
  - Maritime Support
  - Environmental
- Commercial Opportunities Not as Apparent



# **NAS Integration Issues Remain**



- Goal: Routine, Standard Operations with other Airspace Users
- Industry Committed to Timely and Safe Integration
  - No Midnight Phone Calls from Mike O'Shea!
- Global Harmonization of Standards is Critical
  - ICAO, FAA, EASA Efforts to Unify Standards is Commendable
- Technical/Procedural Issues
  - DSA, Spectrum
  - Airmanship, Airworthiness

## We Will Collaborate to Find Solutions



- FAA Resources
- Government/Industry Data Collection
- RTCA Standards Engagement
- Aeronautics Research
- Small UAS ARC
- Global Harmonization



