

## **Key Points**

- Saturn Arch Program Snapshot (QRC) Path to Fixed Wing Aircraft Modernization
  - **2009**: Initial Contract December 2009
    - Beech King Air transition to DHC-8 100 (King Air belly mount to DHC-8 side fuselage mounting)
  - 2011: Basis for five additional Saturn Arch and Two Desert Owl ISR Aircraft
    - Bombardier DHC 8 200, 300 series (foundation for DHC-7 replacement program ARL-E)
  - 2017: Program Hours 38,000+; two new aircraft builds ISO USCENTCOM JUONs completed
    3rd Qtr 17 (now deployed with Saturn Arch 3.0 systems)
- Proof of Concept (i.e. Bridging technologies to ARL-E Program of Record)
  - Airworthiness Release and Airframe Lifecycle Analysis; Migration to C of A
  - Steel Sensor Rail/Sidecar System Improvements
  - Avionics, Weight Reduction and Communications Systems Improvements
    - Communications [Vortex], Pilot Guidance, Precision Navigation and Timing Systems, ASE, IFF
- ► Tactics, Techniques and Procedures Impact on Employment Force Development
  - Best practices to maximize range/endurance while optimizing C-IED sensor employment
  - Contractor operated capabilities applied quickly as needed; corresponding maturation of USA force

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- Rapid fielding of ISR upgrades and capabilities Readiness Available on Demand
  - Spinoff to Foxhound Development; Colombia proof-of-concept; Long Range Radar?
- ► Lessons learned for agile operations and sustainment the Total Force Construct
  - Sustainment of DHC-8 aircraft in austere environments
  - Rapid establishment of affordable infrastructure