• Mission Equipment Portfolio
• On-Going Programs
• Technologies of Interest
Mission Equipment Portfolio

**Requirements**

**Survivability**
- Detect and Defeat Multi-Spectral Threats

**Penetration / Fires**
- Navigation
  - Terrain Avoidance
  - Targeting

**C4 / Mission Command**
- Situational Awareness
- Digital Connectivity
- Data Management

**Technology Areas**

- **RF & IR Sensors and Countermeasures**
  - Laser Detection
  - Acoustic Detection
  - Ballistic Protection
  - Signature Reduction

- **Electro-Optical Sensors**
  - Terrain Following Radar
  - Sensor Fusion
  - Synthetic Vision

- **Avionics Architecture**
  - Real Time Video/Data Communications

**End State**

- **Integrated Advanced ASE**
- **Full Spectrum Signature Management**
- **Increased Lethality Engagement Sys**
- **Operations Unconstrained By Environment**
- **Fully Fused Sensors**
- **Advanced /Integrated Nav System**
- **Multi ship SA Sharing**
- **OTH Info Sharing**
- **Cloud Based Information**
- **Pilot-Vehicle Interface**

**Light Weight, Lower Cost of Ownership**
Mission Equipment Activities

**Aircraft Survivability Equipment:**
- Lightweight IR Countermeasure Development
- SIRFC Enhancements
- Flare Improvements

**Sensors and Weapons:**
- Degraded Visual Environment Development
- FLIR Upgrades

**Avionics:**
- Secure Real Time Video Integration
- Tactical Airborne Network Integration
- Mission Processor Upgrades

**Sustainment:**
- Sustain operational availability
- Control sustainment costs of mission equipment
Technology Interests

- Protection against guided and unguided threats
- Methods of reducing crew workload
- High data rate communications
- Light weight cabin protection
- Signature management
Questions