

**ROTARY WING** 

## Agenda

- 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

## <u>Technology</u> <u>Areas</u>

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

Direct Fire Threat (Detect and Locate)



Radar Threat (Receive and Jam)



EO/IR Missile Threat (Detect and Decoy/Jam)









Degraded Visual



Common Sensor Payload

Software

Compatible









GOTS/COTS Material Solution



Live video with location of Video shown on imagery

## Technology Interests

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

# Questions