Brett Kennedy
Deputy PM Silent Knight Radar

Business Opportunities and Technology
Rotary Wing Lift Transformation

- Increase Situational Awareness
- Signature Management
- Lighter And Faster
- Increase Payloads
- Increase Lethality
- Increase Survivability
- Reduce Crewmember Workload
- Seamless And Quick Aircraft Integration
Degraded Visual Environment (DVE)

- Integrate And Qualify A Solution Capable Of Flying In All Degraded Visual Environments
- Leverage Other Service Science And Technology Efforts Relating To DVE

**ACQUISITION STRATEGY**
- Develop DVE Capability Using Multi-spectral Sensor Approach
- Integrate DVE Into Existing Aircraft Sensors

**PERIOD OF PERFORMANCE**
- FY13-FY18

**MILESTONES**
- FY13 Begin RDT&E Effort for DVE
- FY16 Milestone C Decision

**FUNDING**
- ~$33.5M RDT&E FY13-FY15
- ~$84.8M PROC FY16-18

**CURRENT CONTRACT/OEM**
- Helicopter Survivability Funded Effort For DARPA To Develop Synthetic Vision Backbone
- RFP – February 2013

**POINT OF CONTACT**
- USSOCOM PEO-Rotary Wing
Technology Interest

- Light Weight Curved Transparent Armor
- Noise/Optical/IR/RF Signature Management
- Hostile Fire Indicating System (HFIS)

Current S&T Projects

- Low Visibility Flare
- Hostile Fire Indicating Sensor
- LIDAR Rapid Innovation Funding (RIF)
Rotary Wing Acquisition Way Ahead

Planning for the next five years:
- MH-47G, MH-60M, A/MH-6 Block Upgrades
- Silent Knight Radar (SKR)
- Degraded Visual Environment (DVE)
- Hostile Fire Indicating System (HFIS)
- Aircraft Occupant Ballistic Protection System (AOBPS)
- Reduce Optical Signature Emission Solution (ROSES)
- Secure Real-Time Video (SRTV)
- Light Weight IR Countermeasures for MELB (LWIRCM)
- Joint Interoperability Network

Planning for the next ten to fifteen years:
- Active RPG defeat
- Color changing paint
- Non-Lethal weapons (Dazzler, Acoustic Hailing)
- Curved Transparent Armor
- Noise/RF/IR signature reduction
Ways RW Pursues S&T Projects

- **Small Business Innovation Research (SBIR) Program**
  - Each technology pursuit includes a Phase I feasibility study and a follow-on Phase II demonstration effort.

- **Broad Agency Announcements (BAA)**
  - Includes submission of white papers, technical proposals, statements of work, and cost proposals.

- **Rapid Exploitation of Innovative Technology (REITS)**
  - Used throughout the year for rapid S&T efforts.

**TILO**