

Rotary Wing



Brett Kennedy

Deputy PM Silent Knight Radar

Business Opportunities and Technology



Rotary Wing Lift Transformation



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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

POINT OF CONTACT

USSOCOM PEO-Rotary Wing

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

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

www.socom.mil/sordac/pages/submityouridea.aspx