

# Lockheed Martin To Develop Next-Gen Sensor Fusion Testbed To Enhance Helicopter Survivability

ORLANDO, Fla., Oct. 17, 2017 /PRNewswire/ -- Lockheed Martin (NYSE: LMT) received a \$12 million contract from the U.S. Army to develop a Multi-Modal Sensor Fusion (MMSF) testbed for rotary-wing aircraft.

Under the service's Night Vision and Electronic Sensors Directorate (NVESD), the company is developing sensor fusion and integration technologies that enhance rotary-wing aircraft survivability and enable pilots to navigate safely in all environments, even when GPS is unavailable. The MMSF algorithms blend data from multiple sensor types to restore a pilot's situational awareness in degraded visual environments (DVEs).

"Current Lockheed Martin fire control systems enable pilots to own the night," said Paul Lemmo, vice president of Fire Control/SOF CLSS at Lockheed Martin Missiles and Fire Control. "Our next-generation MMSF technology will help them own the environment as well. Our work with NVESD and other DVE stakeholders will enable helicopter aircrews to operate more safely and effectively in even the most challenging visual environments."

During the 40-month effort, Lockheed Martin engineers will integrate government-furnished sensors in a reconfigurable, open-architecture testbed that supports the development of DVE systems for rotary-wing aircraft. Other activities include refining multi-modal fusion techniques and real-time 3-D mapping, and implementing symbols and cues for pilot sensor displays.

MMSF blends sensor data to generate real-time 3-D terrain maps of the area around the aircraft—maps that can identify and highlight obstacles to improve situational awareness for pilots, mission commanders and other platforms. Potential recipients of such capabilities include existing Army helicopters and Future Vertical Lift solutions.

## About Lockheed Martin

Headquartered in Bethesda, Maryland, Lockheed Martin is a global security and aerospace company that employs approximately 97,000 people worldwide and is principally engaged in the research, design, development, manufacture, integration and sustainment of advanced technology systems, products and services.

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