



DSIAC Success Story

DSIAC and Malloy Aeronautics Demonstrate Military Hoverbike Prototype

<http://www.dsiac.org>

Customer:	RDECOM – U.S. Army Research Laboratory (ARL), Aberdeen Proving Ground, MD
Challenge:	The military is seeking disruptive new technologies to provide 3-D maneuver warfare to ground troops while minimizing IED threats.
Approach:	DSIAC partnered with U.K.-based startup Malloy Aeronautics (MA), to conduct feasibility development and testing of a Tactical Reconnaissance Vehicle (TRV) based on MA's commercial Hoverbike concept. The TRV concept provides an organic squad level asset which increases warfighter mobility regardless of terrain, and can also provide materiel transport, reconnaissance, and medevac capabilities in both manned and unmanned modes.
Value:	DSIAC provided the DoD access to emerging commercial off-the-shelf (COTS) technology through innovative international partnering coupled with decades of aircraft design and survivability engineering expertise; through this approach, DSIAC was able to expedite further development of the Hoverbike into a platform able to achieve military objectives, successfully meeting an aggressive schedule for a full-scale technology demonstration within 12 months. The initial R&D test provided valuable data that validates TRV performance estimates and positions the DoD to fully exploit this new disruptive technology.

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