

Office of Naval Research: Science and Technology Initiatives for Tactical Vehicles

Dr. David E. Walker Director of Technology, Office of Naval Research 16 May 2017







Naval Research





Science and Technology Support to the Tactical Wheeled Vehicle (TWV) Fleet

Accomplishments and Opportunities

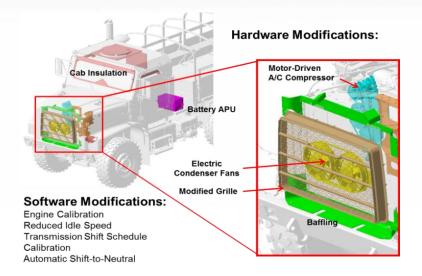


Fuel Efficient Medium Tactical Vehicle Replacement (FE MTVR) Future Naval Capability (FNC) Recent Accomplishment

Problem:

• The MTVR consumes approximately 50% of the fuel used by the Marine Corps ground vehicle fleet.







Ground Vehicle Technology Areas of Interest

Autonomy



Mobility Image: Crew Cab Power Block Payload

Survivability



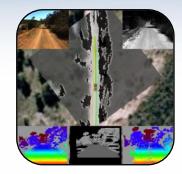
Logistics



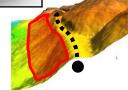


Ground Autonomy Investments

Off-Road Ground Autonomy



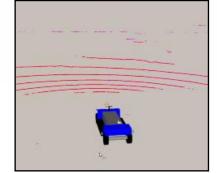






Amphibious Autonomous Swarms

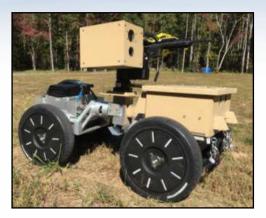






Distribution Statement A: Approved for public release

Semi-Autonomous Fires







Ground Vehicle Technology Future Opportunity

Potential New Research Opportunity:

• Marine Corps replacement for the Light Armored Vehicle (LAV)



Current LAV-25



© Concept Art from Bandai Namco

Illustrative of Future ARV ?

Stayed tuned for future announcements



ONR Websites

Navy and Marine Corps S&T Strategic Plans located at: <u>https://www.onr.navy.mil/About-ONR/science-technology-strategic-plan.aspx</u>

ONR Public Website: https://www.onr.navy.mil/

ONR Public Website, Broad Agency Announcements: https://www.onr.navy.mil/Contracts-Grants/Funding-Opportunities/Broad-Agency-Announcements.aspx

• 2017 Long-Range Broad Agency Announcement for Navy and Marine Corps Science and Technology is BAA 17-001.



NAVALFUTURE

SCIENCE AND TECHNOLOGY EXPO

WALTER E. WASHINGTON CONVENTION CENTER WASHINGTON, D.C. JULY 20-21 2017 WWW.ONR.NAVY.MIL/EXPO

ACCELERATING TO THE NAVY & MARINE CORPS AFTER NEXT!



CO-SPONSOR www.navalengineers.org