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Manned/Unmanned Teaming (MUM-T) operations have been used by the US Army in Operation Enduring Freedom, Operation Iraqi Freedom, and Operation New Dawn. The true interoperability between manned and unmanned systems was first demonstrated during the Manned-Unmanned System Integration Capability (MUSIC) exercise in September 2011. The exercise demonstrated the feasibility of MUM-T, while highlighting potential requirements for further MUM-T development. Since then, technological advancements and Army structural changes have taken MUM-T from a concept to a standard aviation operation. As MUM-T technology matures, new capabilities will be added, providing additional operational benefits to the Army. In order to support future force development, Headquarters Department of the Army G-3/5/7 DAMO Aviation has sponsored an Army Regulation (AR) 5-5 Study on 2030 MUM-T implications to the US Army. This year-long TRAC-led analytic study will assess and prioritize potential future capabilities and analyze their implications to the Army. It was initiated through an action from the September 2014 Study Program Coordination Committee. The objective of the study is to inform decisions regarding capabilities and materiel solutions for 2030 demand signal for MUM-T. TRAC is applying a holistic approach in gathering various future demand signals and evaluating them using a combination of qualitative and quantitative assessments. In the execution of the study, TRAC is coordinating supporting efforts representing a vast community of interest including: Army Aviation and Missile Research Development and Engineering Center (AMRDEC); Army Material Systems Analysis Activity (AMSAA); the Army Capabilities Integration Center (ARCIC); Program Executive Office (PEO) –Aviation, TRADOC G2; TRADOC Centers of Excellence for Aviation, Fires, Intelligence, Maneuver, and Maneuver Support; and Combatant Commands (COCOMS).



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