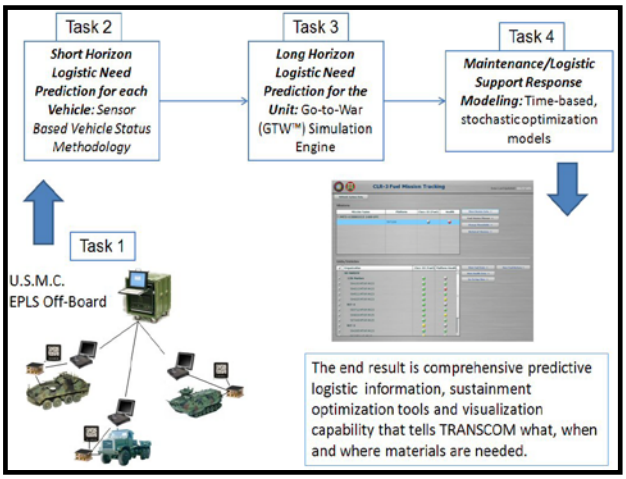
USTRANSCOM Science and Technology

Predictive analysis Capability for Optimization of Maintenance &Logistics Support



Project Summary: This project will develop software tools that provide 30 day and 6 month forecasts for parts/supplies and maintenance requirements needed by tactical equipment. The difference is the ability to base these forecasts, not on estimates, history or rules of thumb, but on near-real time status reported from tactical vehicles provided by a USMC Program of Record during and immediately after missions. Doing so will provide a rolling, accurate parts forecast bridging the tactical, operational and strategic levels.

Return on Investment: Commercial supply chains realize a 2-3% savings from just sharing information between echelons to up to 30% where decisions are actively coordinated. DoD supply chains, while different, should see significant increases none the less.

Duration of project: FY11-13

Participants: USTRANSCOM TCJ5/4, Program Management Office for the USMC Autonomic Logistics Program of Record (AL/POR); Penn State Applied Research Laboratory (Penn State ARL); U.S. Army Research Laboratory (ARL).

Project advocacy (funding or otherwise): USTRANSCOM, USMC, US Army

Transition: The software tools developed for this project will transition to the Marine Corps Autonomic Logistic (AL) Program; the 30 day forecast tool will be transitioned into "Decision Support" and the 6 months forecast tool will be transitioned into the Logistics Enterprise Systems.

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