

NEXLOG Data-Driven Logistics (D2L)





Installations & Logistics	
Improving maintenance decisions by minimizing unscheduled repairs	 Technology / Product / Objective: Prototype predictive maintenance software solution to improve operational readiness for a legacy platform (M88) Prototype smart sensors to increase system life and resiliency through predictive modeling, machine learning, big data analytics, and Condition-Based Maintenance (CBM) Combines structured data from sensors with unstructured historical GCSS-MC data to develop algorithms for predicting maintenance Pilot will leave-behind prototypes/data to be further assessed in the operational environment The So What: Assess the impacts of a commercial predictive analytics solution on maintenance planning, costs, & operational readiness. Proof of concept will inform requirements for larger logistics predictive analytics and CBM+ capabilities.
 Key Participants: Project Lead (PL) Agency: USMC I&L Gov't Contributors: RRTO, OSD (MPP) Transition Partners: MARCORSYSCOM, Army TACOM Key Deliverables: Develop and deliver prototype data loggers for M88 platforms Deliver license to analytics software & data in AWS GovCloud Training / CONOPS manuals Develop a final report summarizing the work performed and the results and conclusions derived. 	Project Milestones: (DAC= Days After Contract Award)• Project kickoff and POA&M development30 DAC• Initial report with predictive insights gained120 DAC• Field demonstration150 DAC• Deliver final report & prototypes360 DAC