



USTRANSCOM Science and Technology

Big Data Analytics using Enhanced Data Lakes (BDAEDL)

Project Summary: During an average week, USTRANSCOM conducts more than 1,900 air missions, with 25 ships underway and 10,000 ground shipments operating in 75 percent of the world's countries. Requirements are entered, vetted, manifested, moved, and tracked in more than 100 information systems throughout the Defense Transportation System. There is not a

single system, process, or data warehouse that maximizes efficiency. Many data gaps and inabilities to achieve in-transit visibility across the enterprise lie with the mountains of big data from disparate systems, systems who may not even share the same format for the exact same data elements. BDAEDL will leverage proven Commercial and Government off-the-shelf mature components in building the data lake prototype. Additionally, it will leverage the successes of existing USTRANSCOM data strategies, projects and other R&D outputs to maximize the maturity of these initiatives.

Benefit: Research will seek out an appropriate USTRANSCOM use case for a prototype data lake and provide more specific ROI during the initial spirals of this effort.

Duration of project: FY17-FY19

Participants: Air Force Research Laboratory, Defense Information Systems Agency

Project advocacy (funding or otherwise): TCJ6

