Enhancing Cost Analysis through Data Engineering and Analytics

LOE 2

The Army is actively leveraging the Vantage and ADVANA platforms to develop new cost estimation and analysis products. These products **improve data access, resourcing analysis, and leader decision-making capability.**

Recent estimation and analysis efforts and tools:

Logistics Modernization Program:
- Created a Vantage / PowerBI **data model that provides Cost Analysts with Army Depot project costs** (includes labor and material costs and quantities, end item quantities, work sites, etc.).
- Supports Operations and Sustainment Reviews and Independent Cost Estimates.

Cost by Unit Analysis:
- Created a collection of Vantage dashboards that provide costs by Army Unit Identification Code (UIC), MDEP, and commitment item to support budget analysis.
- **Analyses include Unit Execution Report, Air OPTEMPO, Ground OPTEMPO, Cost of Training Readiness Report and Training Resource Model (TRM) Comparison Report.**

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The Vantage and ADVANA analytics platforms enable **efficient sourcing of table-level data from Army systems**.

Recent estimation and analysis efforts and tools continued:

Global Combat Support System – Army:
- Created a Vantage **data model that provides Cost Analysts with unit maintenance work order costs** (includes labor and material costs, quantities, work order status by UIC, NIIN, etc.).
- Supports Operations and Sustainment Reviews and Independent Cost Estimates.

Army Acquisition Execution Insight:
- Created an ADVANA dashboard providing a consolidated view of Army Acquisition Program financials.
- **Facilitates Independent Cost Estimates and enables root cause analysis and assessments of a Materiel Acquisition Program's contracts, budget, and schedule.**

Vantage - https://vantage.army.mil/   ADVANA (Qlik) - https://qlik.advana.data.mil/

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