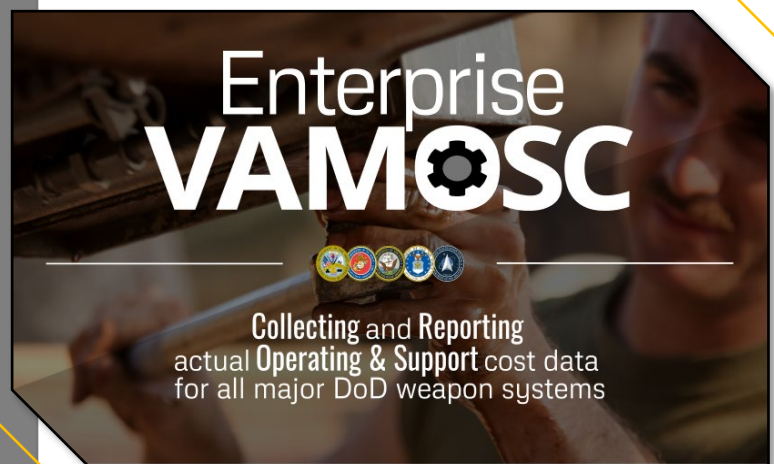# EVAMOSC NEWSLETTER

Office of the Secretary of Defense

COST ASSESSMENT AND PROGRAM EVALUATION

In this issue…

- Introducing EVAMOSC
- Spotlight: EVAMOSC Contributions
- Detailed Maintenance Parts Data Now Available
- Filling Crucial Data Gaps for the U.S. Marine Corps

Enterprise **VAMOSC**

Collecting and **Reporting** actual **Operating & Support** cost data for all major DoD weapon systems

OCTOBER 2022 ISSUE

Introducing EVAMOSC: Your O&S Cost Data Solution

CAPE's new Enterprise Visibility and Management of Operating and Support Costs (EVAMOSC) is pioneering a cloud based, big data analytics solution to address DoD's fractured and cumbersome Operating and Support cost data.

The EVAMOSC data repository puts high quality, standardized detailed Operating and Support (O&S) data into the hands of cost, budget and logistics analysts with a fully integrated and interactive data visualization tool. Analysts have drill down capability from top level reporting categories to transactional level data – enabling unparalleled insight into cost drivers and reliability. The data in EVAMOSC will enhance senior leader decision making and will meet emerging requirements of the O&S data community.

What is O&S?
At the broadest level, O&S costs consist of all sustainment costs incurred from the initial

> **SPOTLIGHT:**
> **EVAMOSC Contributions to CAPE Success …**
>
> ● Provided data to confirm Army hypothesis regarding cause of high rate of LRU turnover
>
> ● Provided data to determine Bradley Fighting Vehicle annual parts usage and top ten cost drivers for a climate calculator project
>
> ● Procured data for the Mobile Protected Firepower (MPF) Independent Cost Estimate (ICE)
>
> ● Revealed historical depot maintenance cost data for the HEMTT/PLS for an Operational Sustainment Review (OSR)

system deployment through the end of system operations. This would include all costs of operating, maintaining, and supporting a fielded system. Specifically, this consists of the costs (organic government civilian and military as well as contractor) of personnel, equipment, supplies, software, and services associated with operating, modifying, maintaining, supplying, and otherwise supporting a system in the DoD inventory. These costs include those associated with the system-specific training of personnel necessary to support the system.

Why EVAMOSC?
A series of congressional mandates require the Director of Cost Assessment and Program Evaluation (CAPE) to provide detailed operating and support data for reporting, ultimately through the establishment of an enterprise-level database and a standardized analytical platform. This new EVAMOSC system was initially released within CAPE in December 2021 and is anticipating DoD-wide release this winter.

How EVAMOSC Works

The EVAMOSC data platform ingests O&S data for DoD major weapon systems from over 75 source data systems that capture logistics, maintenance, financial management, human resources, property, and acquisition data. The data is stored in the cloud-based EVAMOSC data lake. But EVAMOSC is more than just a data lake.
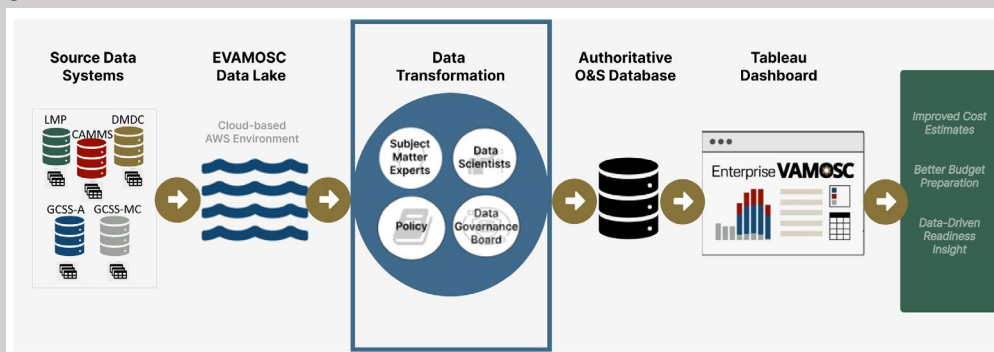
Our Subject Matter Experts (SMEs) come from diverse backgrounds and work closely with our data scientists to provide the expertise necessary to target and ingest the right data, build data storage structures, and map and normalize the data into an authoritative O&S cost database. The EVAMOSC team ensures that our data transformation aligns with current O&S data reporting policy through frequent and extensive engagement with data analysts across the DoD via our data governance board. Our final stage of processing is to take the "analyst ready" O&S data and package it for analysis or direct download from Tableau.

What EVAMOSC Offers

- Enterprise access to previously unavailable data sources
- Historical, actual O&S costs standardized to OSD CAPE Cost Element Structure for all major weapon systems across the DoD
- Granular, transactional level data

Use Cases

- Business Case Analysis
- Sustainment Reviews
- Selected Acquisition Reports
- Independent Cost Analysis
- Readiness Cost Driver Analysis
- Budget preparation with historical data

**EVAMOSC will be available for users in January 2023**
Interested in learning more?
Visit https://evamosc.osd.mil or contact our office via email: osd.mc-alex.cape.mbx.evamosc-helpdesk@mail.mil.

Filling Crucial Maintenance Data Gaps for the U.S. Marine Corps

The USMC has several O&S data systems tracking maintenance, logistics, supply, and financial data. However, analysts were unable to use this data because the sources are disparate, unconnected, required subject matter expertise and data science experts to interpret, standardize, and transform the data. As a result, DoD analysts were unable to provide accurate, historical O&S data for several congressional inquiries, including sustainment reviews and independent cost estimates.

DoD cost estimators were forced to use O&S estimating methodologies that were less reliant on actual cost data and had lower overall accuracy.
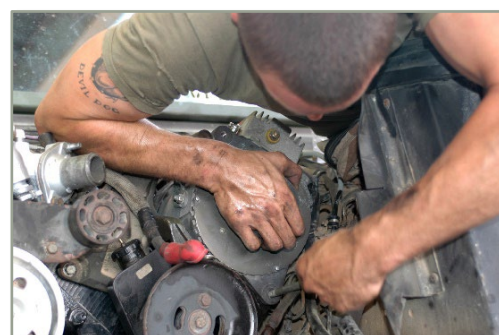
Heavy Equip. Mechanic, 26th Marine Exp. Unit
Photo by Capt. Will Klumpp

EVAMOSC is filling the data gap in the USMC for ground vehicles with its authoritative ground vehicle maintenance data. This Fall, EVAMOSC will be debuting its newest data source: Global Combat Support System – Marine Corps (GCSS-MC). GCSS-MC data will provide analysts with detailed USMC field level maintenance data on communications, ordnance, engineering, general supply, and motor transport equipment commodities.

With EVAMOSC, analysts may leverage data on USMC field maintenance events for weapon systems, such as the G/ATOR, ACV, AAV, JLTV, MTVR, and LVSR, not found in any other DoD enterprise data repository. This fine-grain insight into USMC maintenance events greatly contributes to the cost analyst's ability to produce USMC ground weapon system cost estimates and sustainment reviews with the highest degree of confidence and accuracy.

Granular Level Army Maintenance Parts Data Available in EVAMOSC

EVAMOSC includes data that originates from the Global Combat Support System – Army (GCSS-A) and the Logistics Modernization Program (LMP). GCSS-A provides the cost of unit-level consumables and depot-level reparables (cost elements 3.1 and 3.2, respectively, from the OSD CAPE Operating and Support Cost-Estimating Guide accessible at https://www.cape.osd.mil/files/OS_Guide_Sept_2020.pdf), while LMP provides the cost of depot maintenance (cost element 3.4).

EVAMOSC maps the cost data to specific weapon systems. The data may be filtered by mission/design/series (MDS), national item identification number (NIIN), equipment family and major capability.

For example, a cost analyst who is working on a future maneuver combat vehicle can use the major capability field to search for analogous systems. The analyst will see that EVAMOSC has data for Abrams, Bradley, Stryker and various armored carriers via equipment family fields and can select the most analogous system(s).

In addition to the summary level cost data for a specific cost element, EVAMOSC has a drill-down capability related to material consumption.

Army Maintenance Parts Data

Data Available in EVAMOSC
- **Army:** Maintenance (field and depot) data for ground vehicles and aircraft
- **USMC:** Field level maintenance data for ground vehicles

EVAMOSC Source Systems
- **GCSS-Army:** Field level consumables and reparables parts and systems data
- **Army LMP:** Depot maintenance data on parts and systems
- **CAMMS:** Army Aviation field level consumables and reparables parts and systems data
- **GCSS-Marine Corps:** Field level and intermediate level consumables and reparables parts and systems data

Available Filters
- MDS (Mission/Design/Series)
- NIIN (National Item Identification Number)
- Equipment Family
- Major Capability

Drill-down Capability
- List of material usage (consumables and reparables) filtered by cost element, MDS, etc.
- Material used in each maintenance environment

For a given MDS, users can see a list of consumable and reparable items used to accomplish repairs at the unit level and depot level. For example, a user can see a list of consumables, sorted from high to low total cost, used at the unit level for a given MDS.

Additional cost elements and search capabilities will be added in the future. Priority items include personnel costs and a more detailed search and download capability for depot maintenance data.