

Using EVM at Headquarters

What do they do with all of that data?

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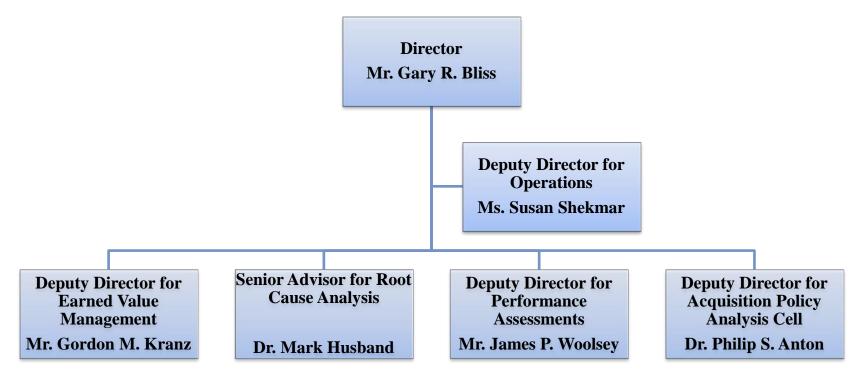
Outline

- ▶ PARCA
- ▶ The USD(AT&L)
- **DAES**
- Analysis Examples



Performance Assessments and Root Cause Analyses (PARCA)

- ▶ PARCA was created by the 2009 Weapons System Acquisition Reform Act (WSARA)
- ▶ Stood up in January 2010



www.acq.osd.mil/parca



PARCA Performance Assessments – WSARA's Assignments

- 1. Carry out performance assessments of MDAPs
- 2. Issue policies, procedures, and guidance on the conduct of performance assessments
- 3. Evaluate the utility of performance metrics used to measure cost, schedule, and performance
- 4. Advise acquisition officials on performance of programs that have been certified after a Nunn-McCurdy breach, are entering full rate production, or are requesting multi-year procurement

Improve visibility into the execution status of MDAPs



The USD(AT&L) and EVM

- ▶ The USD(AT&L) must understand the status of his acquisition programs.
- Mr. Kendall is an engineer, an MBA, and a lawyer with experience in industry, and in government.
- ▶ He's been using EVM for decades. Knows it. Likes it.
- ▶ A sign on his door says, "In God we trust; all others must bring data."

If you want a big boss who cares about EVM and data, you're in luck



How USD(AT&L) Uses the Data

- What does he do with it?
 - Makes it part of his "mental database"
 - Uses it to inform decisions
- ▶ How does EVM get to the boss?
 - Informal meetings
 - Memos
 - Through the ASD(A), Mrs. McFarland
 - Defense Acquisition Board meetings (DABs)
 - Defense Acquisition Executive Summary (DAES) meetings



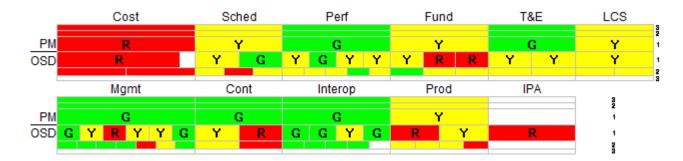
Defense Acquisition Executive Summary

- ▶ The Defense Acquisition Executive Summary (DAES) process allows the USD(AT&L) to routinely evaluate the status of Major Defense Acquisition Programs (MDAPs).
- ▶ DAES runs on a monthly cycle with several steps
 - Assessments
 - Program managers and OSD staff evaluate 1/3 of MDAP portfolio each month
 - Program Selection
 - Senior OSD officials decide which programs should make formal presentations to the DAES meeting
 - DAES meeting
 - Three or four PMs and PEOs brief USD(AT&L) and other senior leadership
- ▶ EVM analysis is prominent in every step



DAES Step One: Assessments

- OSD and Program Managers assess programs in 11 categories:
 - Cost, schedule, performance, contract performance, management, funding, test, sustainment, interoperability, production, international
- Assessments are color coded, but are supported with detailed narrative explanations



- Assessments document programs' status and history, are stored on a shared website, and are read by all levels of staff and leadership
- Assessments are the backbone of program selection



DAES Step One: Assessments

- ▶ EVM data is used in:
 - <u>Cost:</u> EVM data aggregated across contracts shows program cost status
 - Schedule: EVM data, integrated with IMS data and program milestones is often part of schedule assessments
 - <u>Contract Performance</u>: EVM and IMS data are the core of contract performance assessments
 - Management: Lack of EVM data or EVM systems problems can produce negative management ratings



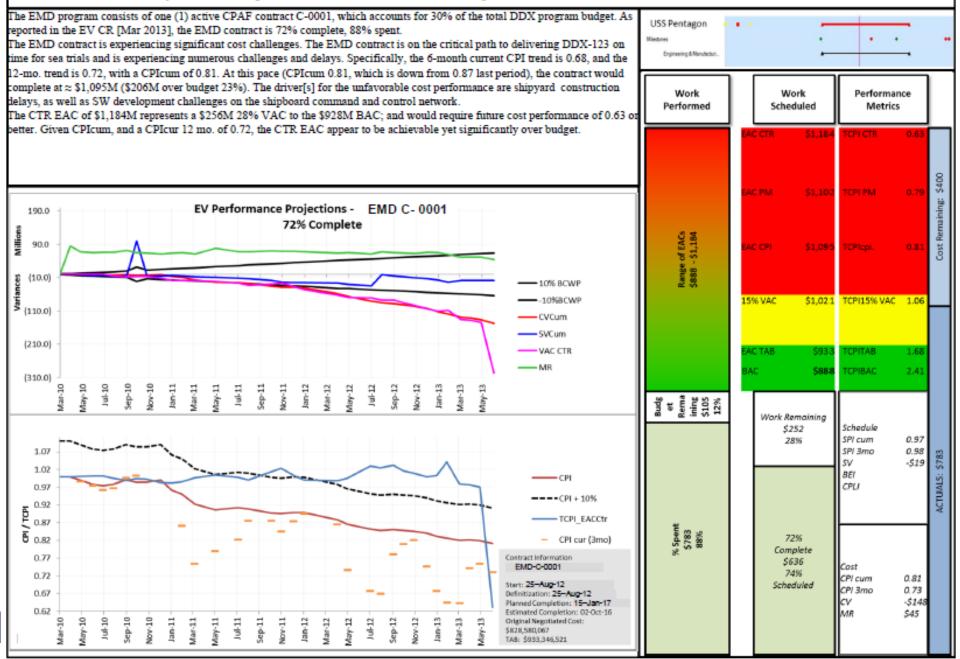
PARCA Contract Performance Assessments

- ▶ PARCA examines the EVM data for every contract on every program being reviewed each month
 - Over 200 since February
- Formal schedule analysis is becoming a larger part of the assessments
 - IPMR will help
- We have a formal process for examining the data and turning it into useful assessments

USS Pentagon (DDX – 123)

Engineering & Manufacturing Development Contract: DF1986-10-C-0001 (CPAF); \$1,384M (30% of \$4,582M Budget)

Service: Navy DAES Group: A Phase: EMD Milestone: B (Sep 2010) Last DAES: June 2011 APB: Dec. 2009 Prime: IMAX





DAES Step Two: Program Selection

- Once per month, senior staff get together to decide which programs will brief at the next DAES meeting
- Meeting chaired by Dr. Nancy Spruill, Director of Acquisition, Resources, and Analysis
- ▶ All aspects of programs are considered as criteria
- No data is more commonly cited than EVM



DAES Step Three: The Meeting

- Meeting starts with review of data submissions and data quality
 - This reflects Mr. Kendall's interest in data
- Mrs. McFarland may then review assessments by various groupings (e.g. contractor, service, commodity type).
- ▶ Three or four programs will brief to Mr. Kendall and the assembled leadership
 - Standard EVM charts are invariably part of these briefs
 - Unique EVM charts are sometimes added to illustrate particular points
 - Mrs. McFarland is a particularly active listener



Insights Apart from CPI and SPI

- Portfolio views
 - Grouping by contractor, commodity, or service
- Asking questions about the data and the systems that created it
- Combining EVM with other data to examine cost progress and funding



End Date:

Significant Acquisition Watchlist (SAW)

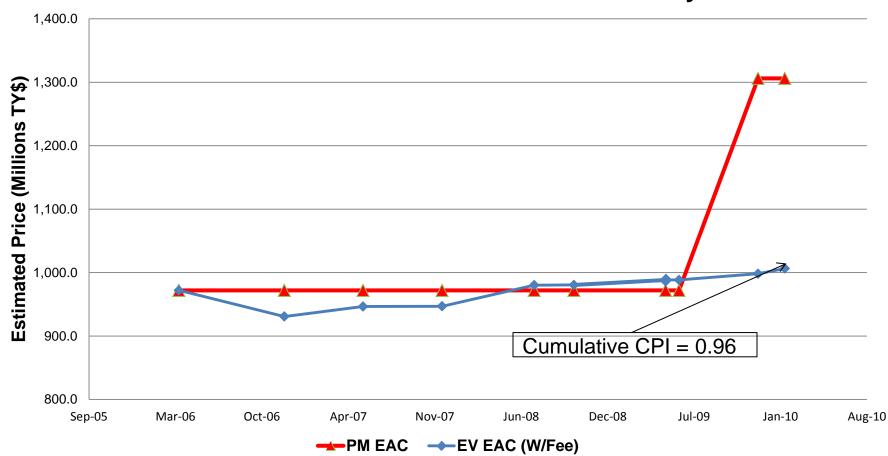
Options Selected Duration of Contracts Portfolio: DAES G 16 DAES Source: Quarter: Apr/May/ 2013 Year: Filter by Program: [ALL] Filter by Contractor: [ALL] Filter by DAES Group: Filter by Commodity Type: [ALL] Filter by Service: [ALL] Filter by Program Type: [ALL] View Contracts: False Data Age Threshold (in Days): 30 Data Submitted Within: 6 Months Zoom to Date Range: True Start Date: 9/6/2012

9/6/2019



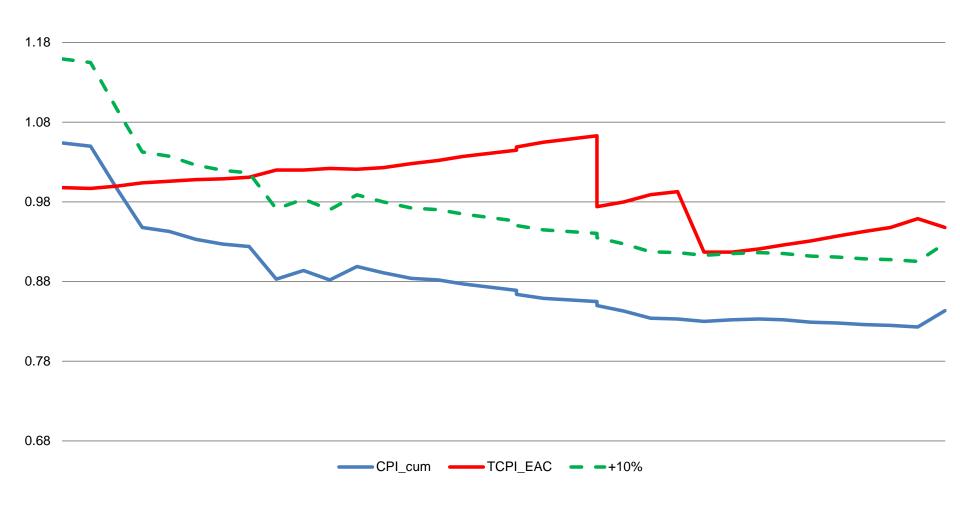
Make the Data Better by Using it, and Asking Questions

A Failed EV System – No Connection Between CPI and Reality





Program Not Adjusting to Poor Performance



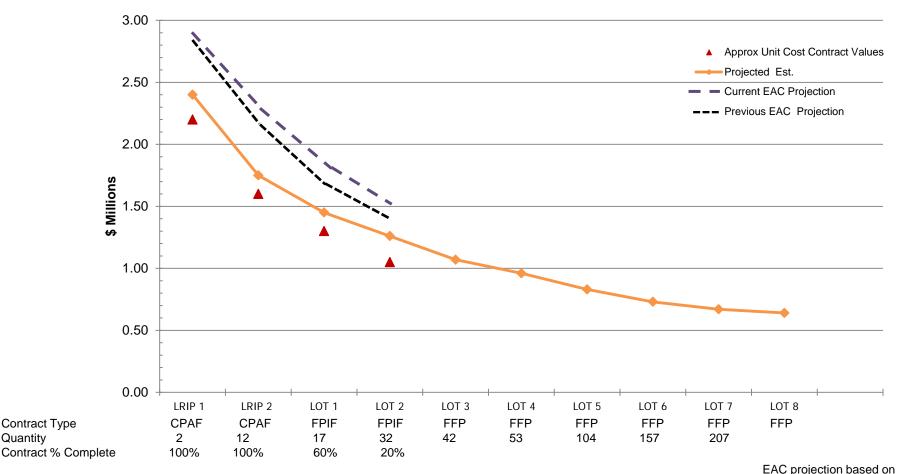


Contract Type

Quantity

Analysis Example - Using Earned Value Data to Show Implications of LRIP Costs

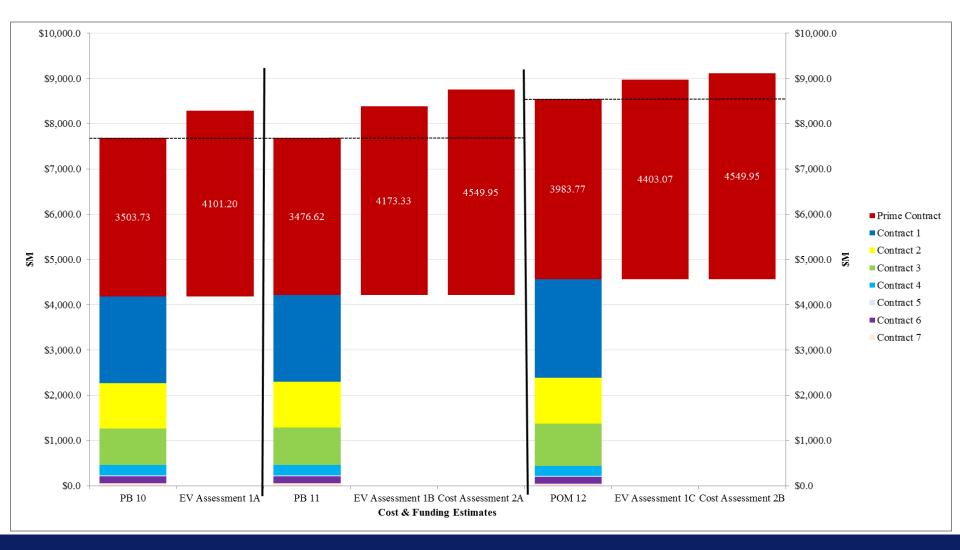
Notional Data Estimated Average URF Price by Lot



CUM Current Period CPR



Program Not Funded to Actual Performance





Summary

- Your EVM data is reviewed at the highest levels in OSD
- ▶ EVM data is a critical element of routine program monitoring, formalized by DAES
- The data is used beyond DAES for analysis and decision making
- ▶ PARCA is responsible for both EV Policy and for using the data to help decision-makers

In God we trust; all others must bring data