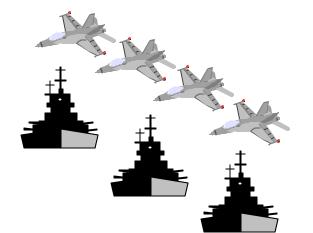


TOC Team Leader EVM Support



Historical prospective Basic overview Policy guidance **Principles** ASN(RD&A) issues Implementation methodology Training, POC's and web addresses Recap



\$\$\$

1986 Pentagon Spending:

- 28% of Federal Budget
- 6.2% of GDP

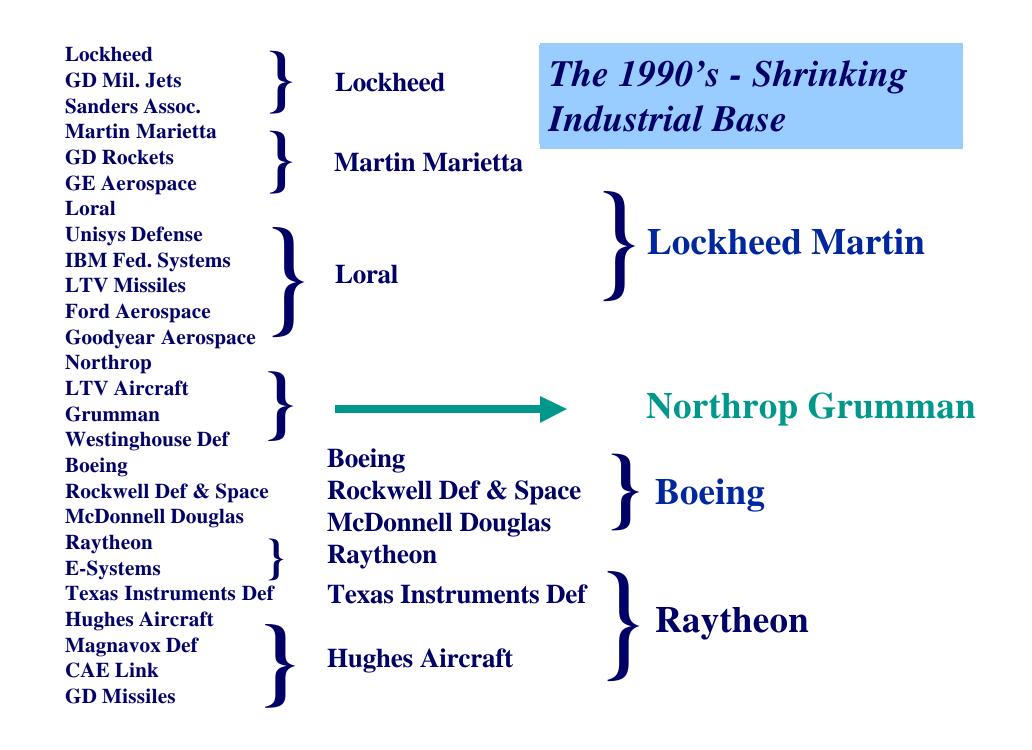
1999 Pentagon Spending:

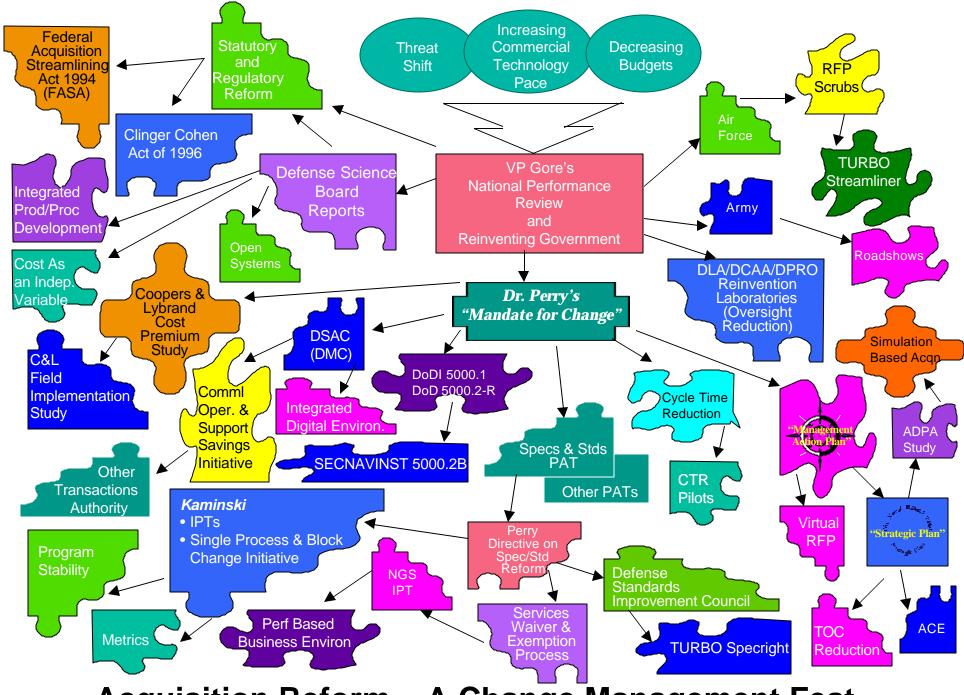
- 16% of Federal Budget
- 3.2% of GDP

Military Procurement Budget:

- Down 64% since 1985 peak
- \$60 Billion goal







Acquisition Reform – A Change Management Feat



"The DoD Regulatory Cost Premium: A Quantitative Assessment"

December, 1994, Coopers & Lybrand/TASC Study:

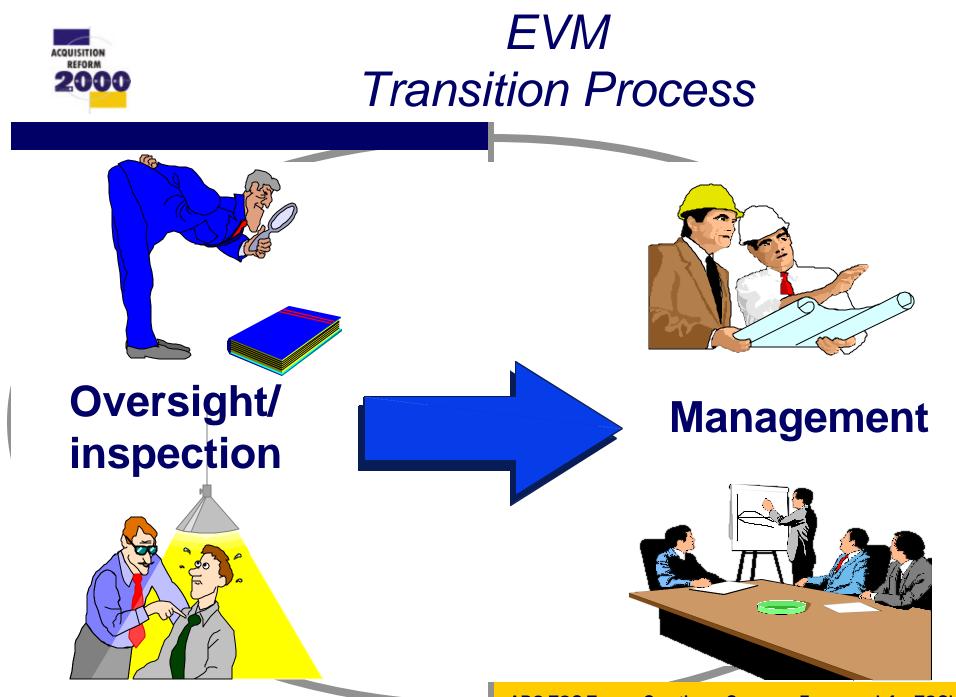


C&L/TASC Cost Drivers: Cost without a requirement

Total DoD Cost Premium is 18% C/SCS Cost Premium is 0.9%

Nearly 3/4 is in Engineering/Program Mgmt Written control account variances Most of Remainder is in administrative and external reporting activities







Earned Value Management: Implementation Problems

"Financial Management" Audit-like reviews Reporting focus Too many "surprises" A-12 (Navy)

Challenge: Keep good principles, Stop bad practices





Lesson of the A-12

The "Beach" Report, A-12 Administrative Inquiry, 28 Nov 1990

Too often, earned value insights remain the sole province of the supporting program control staff of both contractors and the government. Earned value must be an integral part of the performing design and manufacturing organizations. Only when program technical staffs are held accountable for earned value analysis, will they begin to understand its implications.



Growing Consensus: Government/Industry Best Practice

Dec. '96 DoD accepted industry EVMS guidelines as C/SCSC replacement Reserved right for government reviews As determined by project manager "Self-certification" not in public interest Encouraged "true" standard ANSI/EIA 748-98 EVMS issued in 1998 DoD and industry EVMS criteria are equal International discussions - Australia, Canada, UK, US



Earned Value Management

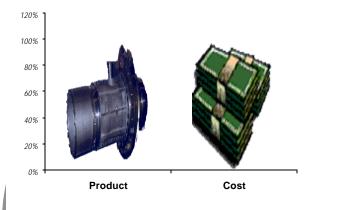
Guidance

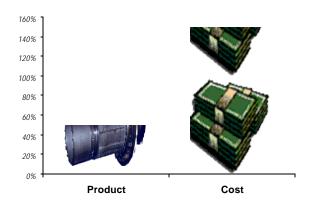
- USD(A&T) accepted industry standard for Defense Acquisition
 - ANSI/EIA-748-98

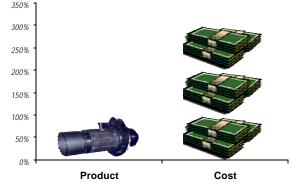
- Acceptance memo signed 17 Aug 99
- Acknowledged as world's best practice for managing complex projects
- Incorporated changes into DoD 5000.2
- Defense Contract Management Agency acts as executive agent for EVM
- EVM Web Site: www.acq.osd.mil/pm



Earned Value Management







Budget

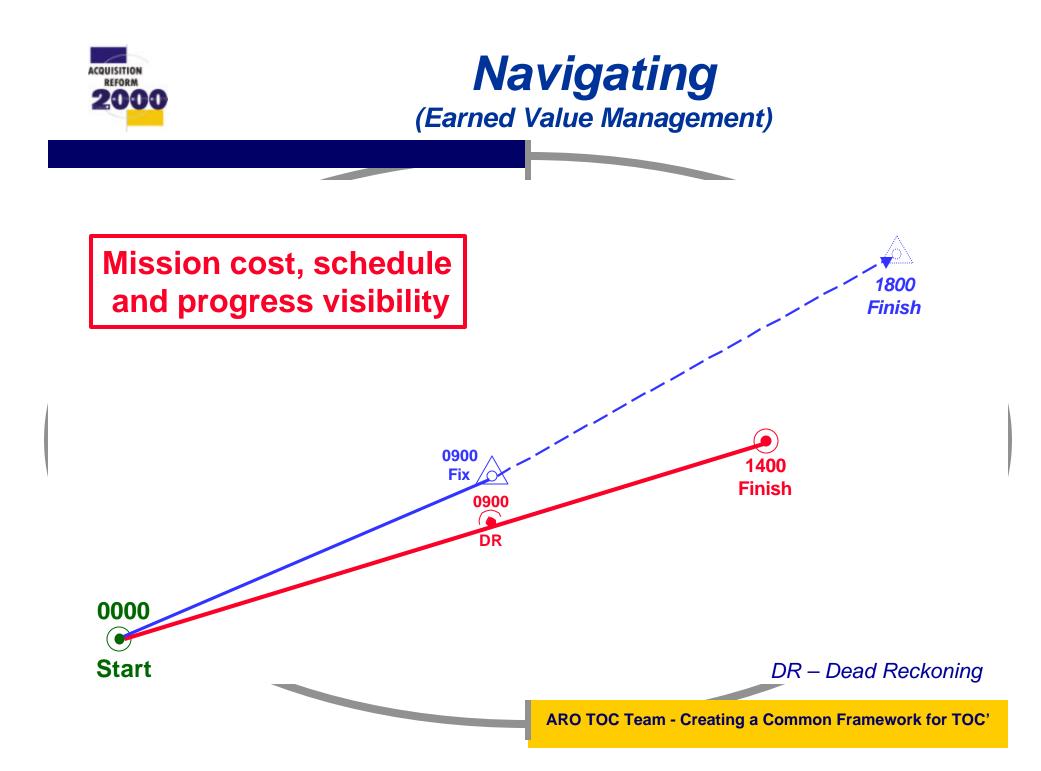
Tool that allows both government and contractor visibility into technical, cost, and schedule progress on their contracts.

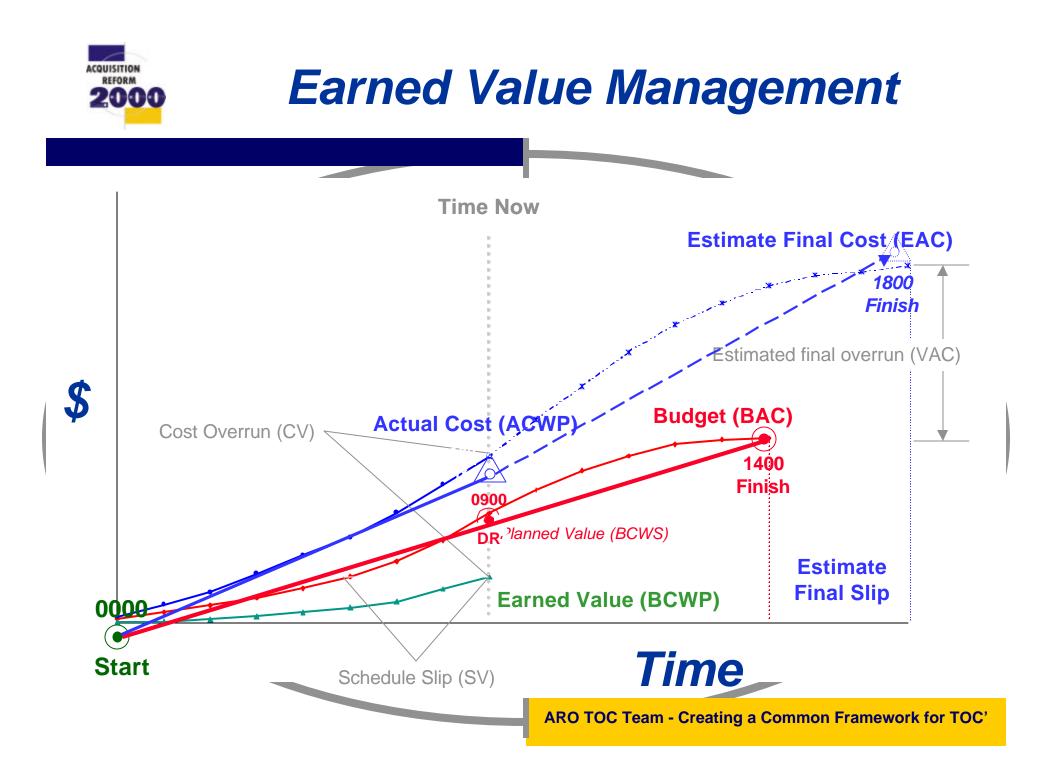
Time Now

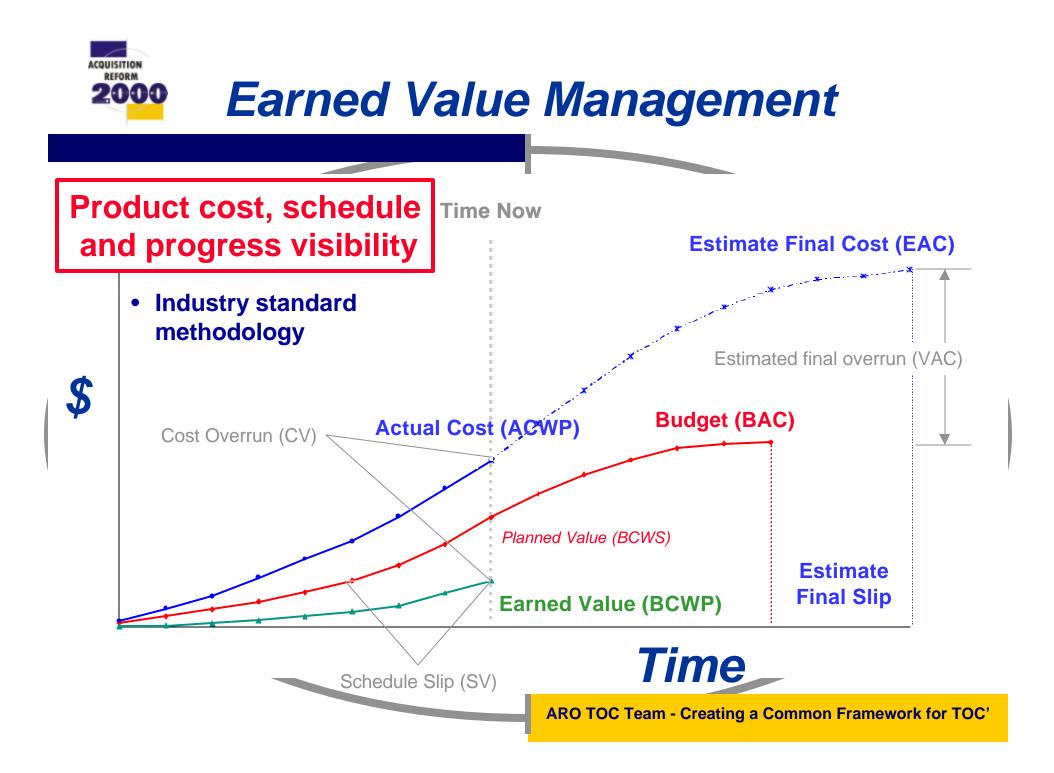
Industry Best Practice ANSI/EIA-748-98 adopted as Defense standard for EVM replacing Cost/Schedule Control System.

Completion

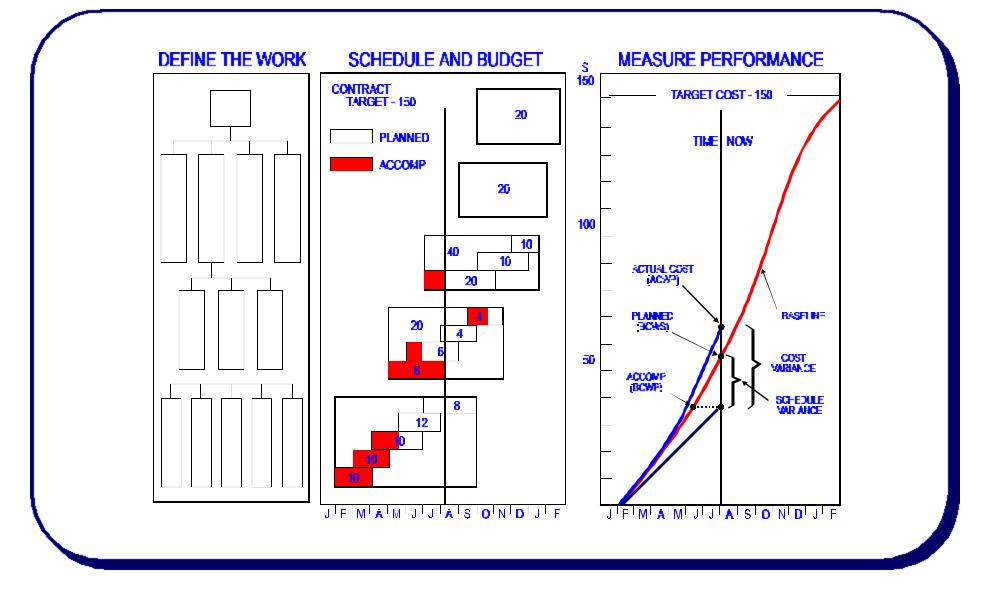
Required for non-FFP contracts >\$73M RDT&E >\$315M procurement Below threshold may be appropriate.



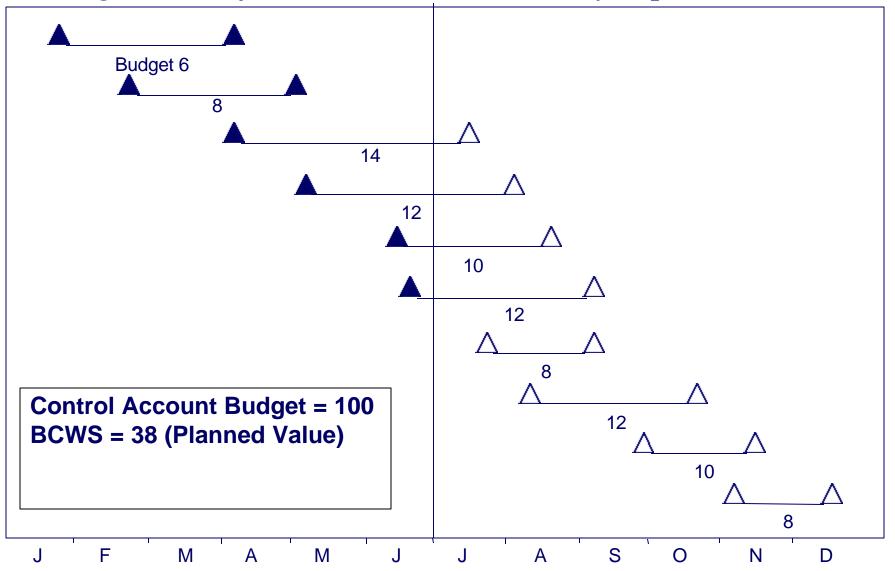




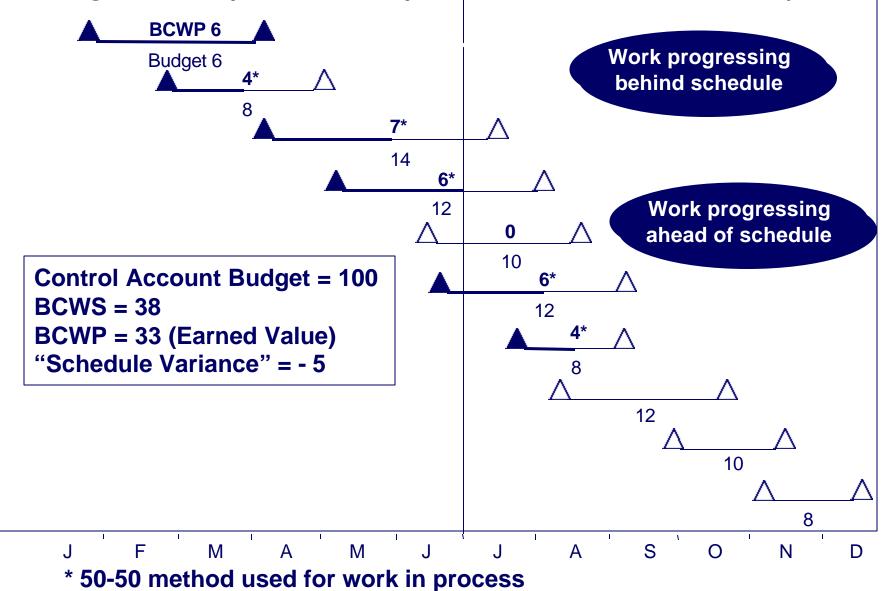
Earned Value Management = Basic Management Principles



Budgeted Cost for Work Scheduled (what you planned to do)

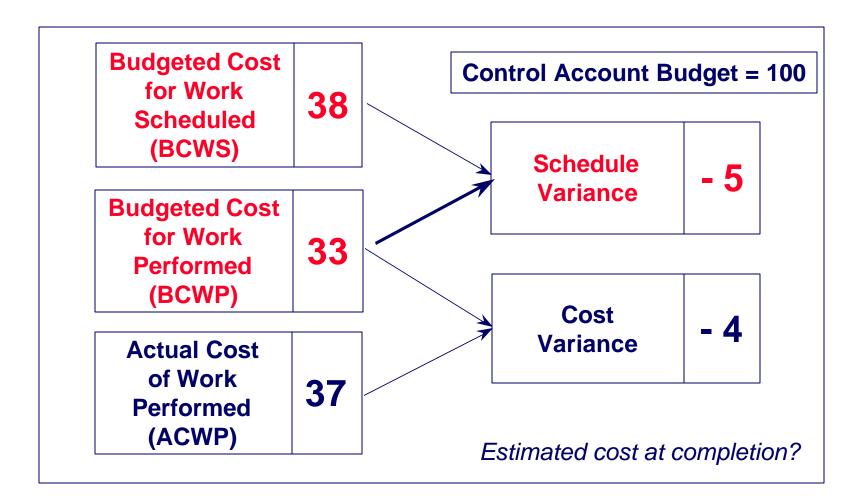


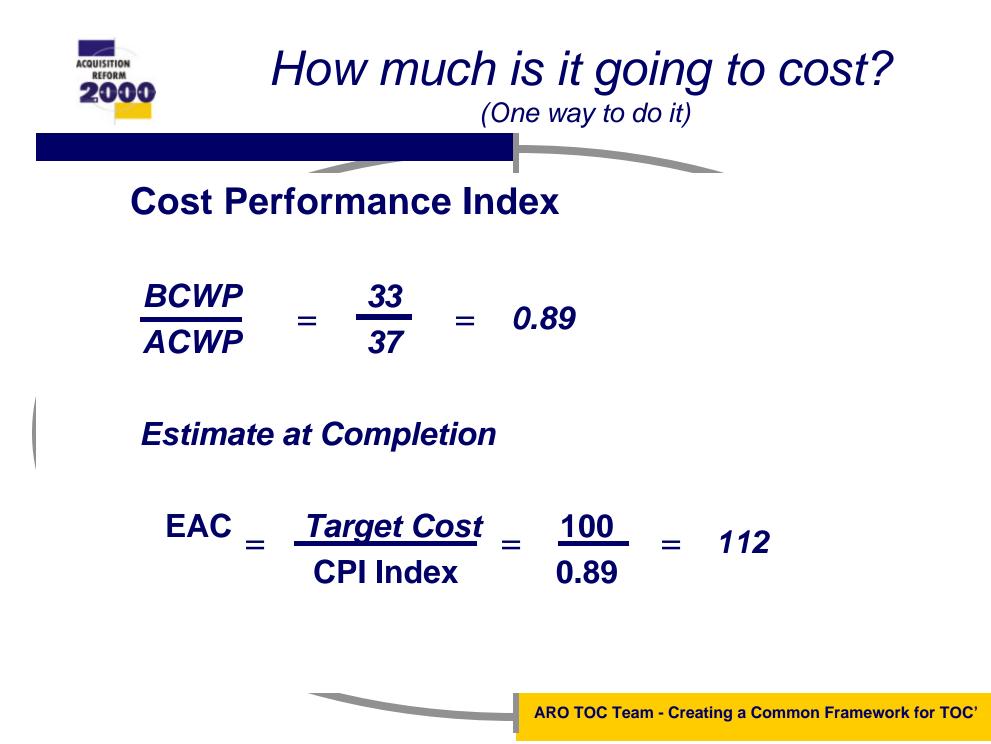
Budgeted Cost for Work Performed (Earned Value-what you did)



Earned Value Concept

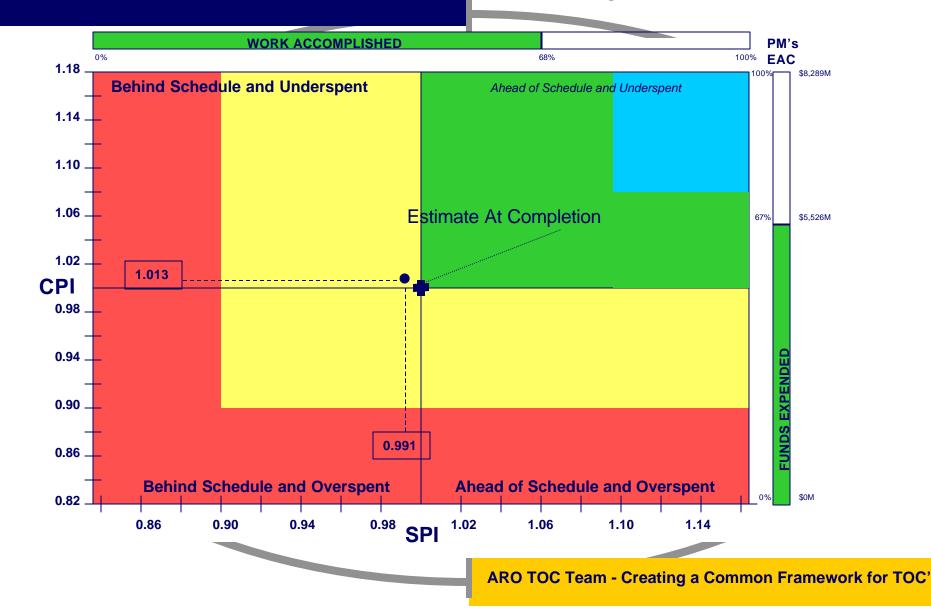
Actual Cost of Work Performed (what it cost to do what you did)





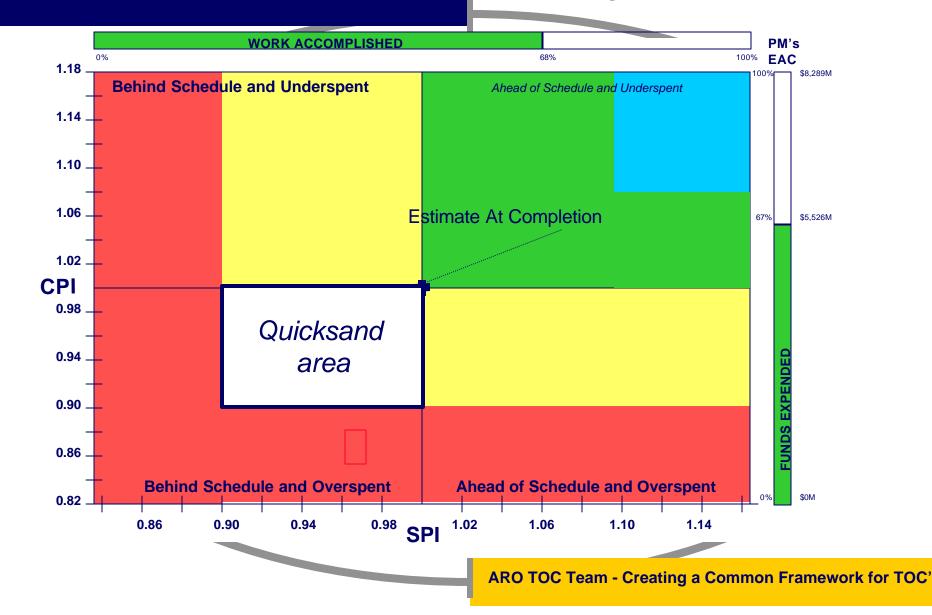
ASN(RD&A) Bullseye Chart

ACQUISITION REFORM



ASN(RD&A) Bullseye Chart

ACQUISITION REFORM





ASN (RD&A) EVM Observations

PM's need to understand EVM data Award fee and EVM performance are often inconsistent

Contractor starting the project based on a unrealistically low estimate is a bad way to start

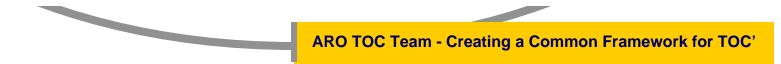
A firm fixed price contract doesn't insulate a program from poor EVM performance and its ramifications



Suggestions For Improvements

Improve your understanding of EVM technical terms

Review award fee criteria in your contracts Keep communications open with your contractors Avoid being lulled by re-baselining actions and instead focus on management initiatives to resolve EVM deficiencies





Cold War Over: Fleet Air Defense / Fighter: Single Mission Only Aircraft

High infrastructure and maintenance costs

Burden on modernization budget and limited fleet operational value

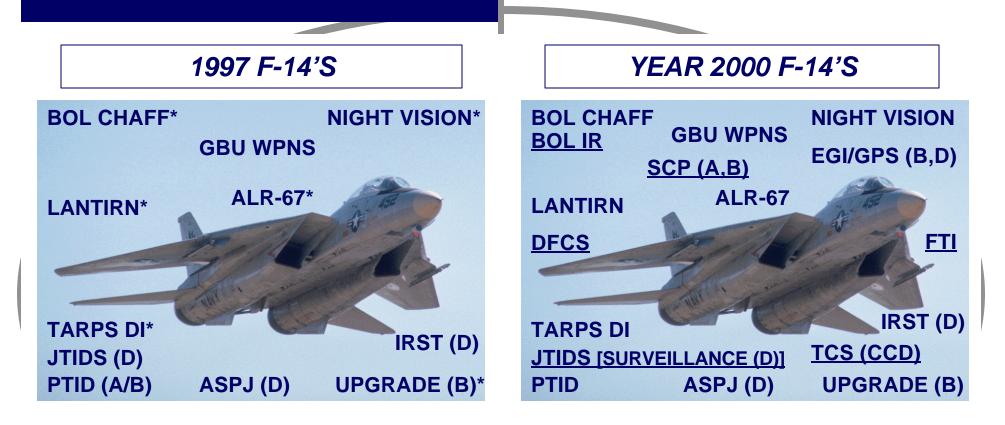
F-14 in a survival mode, budget disappearing

We needed to change the way we did business





F-14 STRIKE FIGHTER POWER PROJECTION ASSET TO 2008

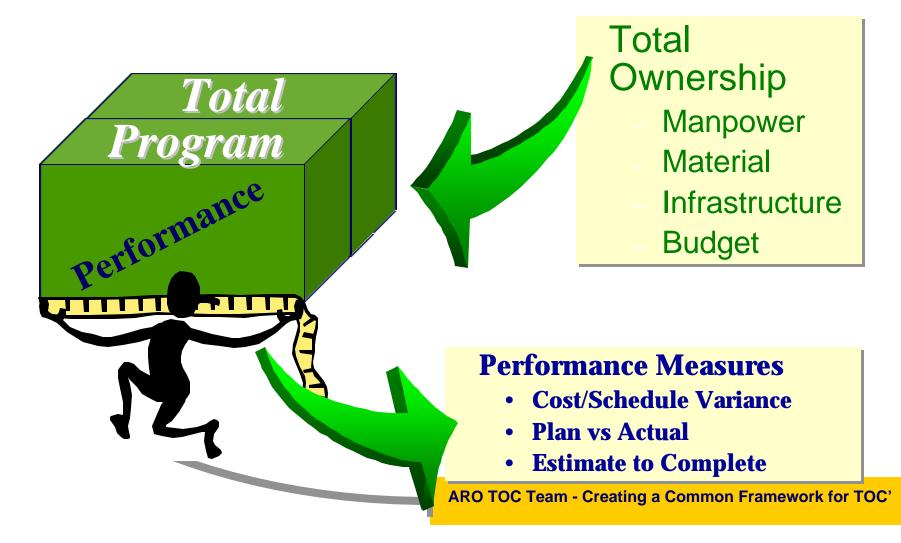


* FLEET INTRODUCTION SYSTEMS IN LIMITED SUPPLY



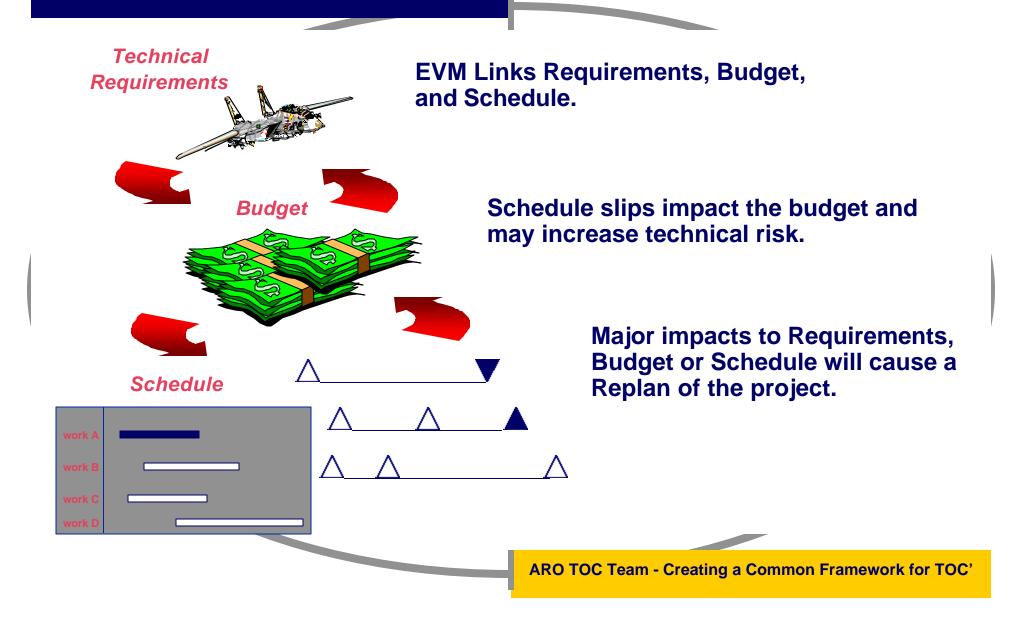
NEW BUSINESS APPROACH

Objective: Maximize Fleet Modernization and Resource Allocation. Identify Risk Before it Becomes a Problem





INTEGRATED APPROACH



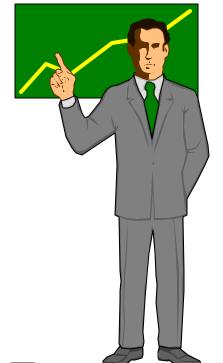


INSTITUTED EARNED VALUE MANAGEMENT

Earned Value Management Techniques Provide...

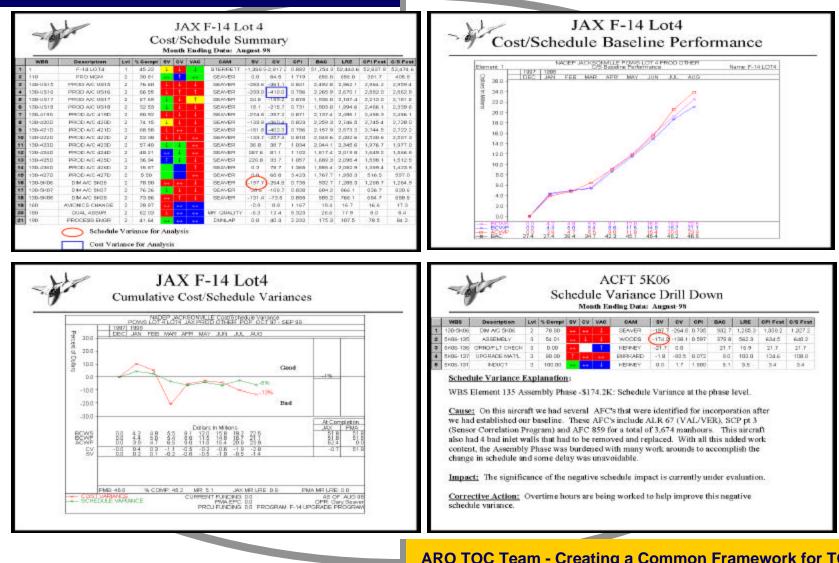
- Common Framework for the Communication of Cost, Schedule, and Technical Issues
- Accurate Estimates of Cost To Complete
- Efficient Management of Cost and Schedule
 Performance
- Product Focused Life Cycle and Cost Management

- Increased Visibility into Resource Management
- Insight into future allowing time to manage or work around obstacles



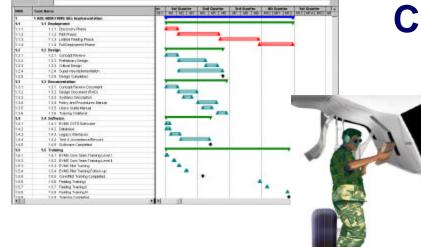


STANDARD IPT BRIEFINGS **SLIDES**



EVM INSIGHT MANAGEMENT ACTIONS

F-14 Team utilizes EVM information Insight to proactively manage...



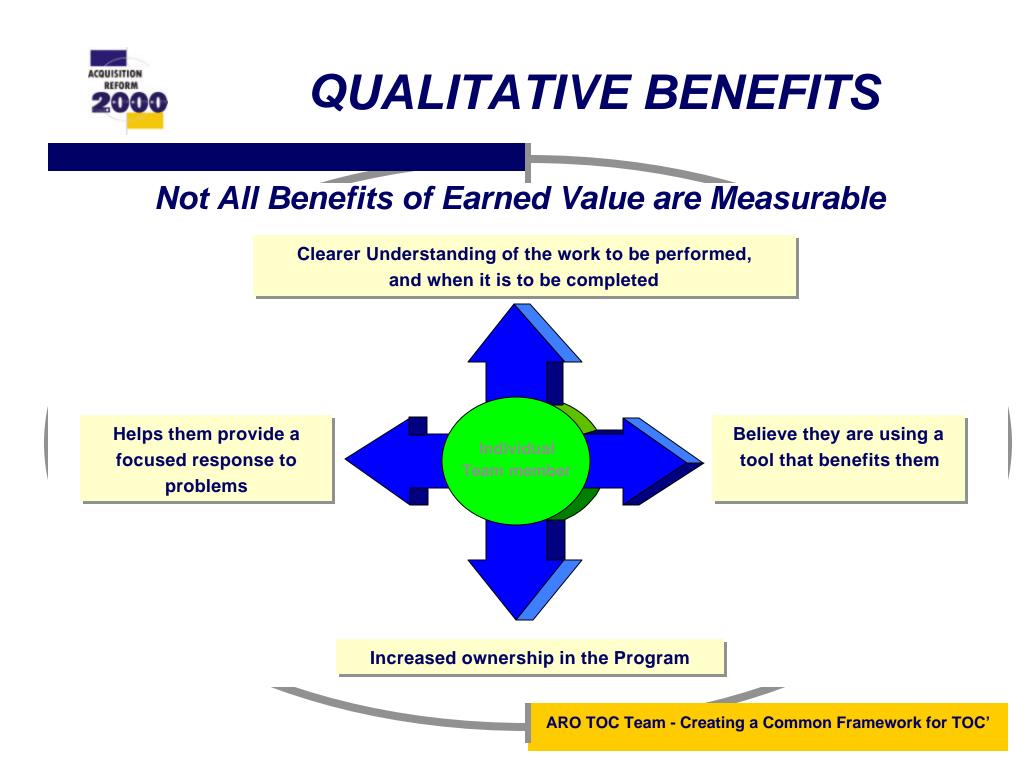
2000

Cost and Schedule

Technical Performance Risks

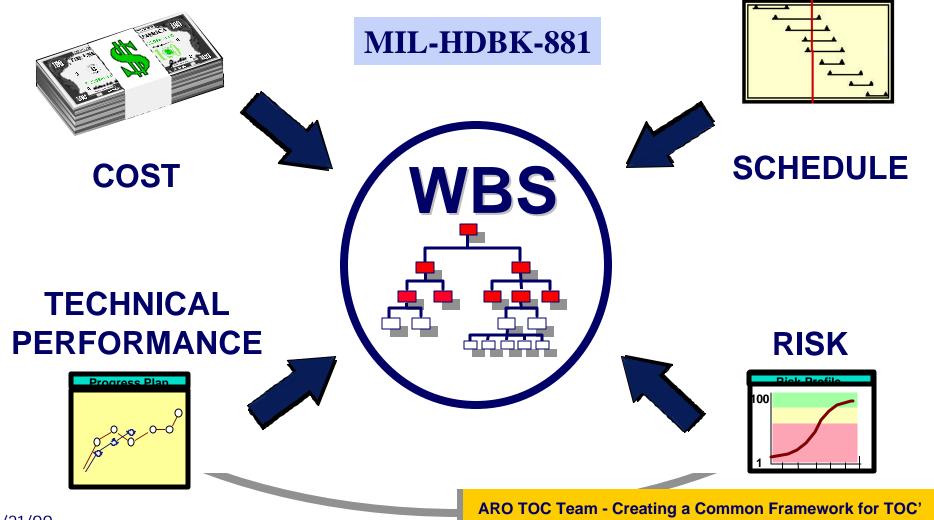
...and Develop Workarounds

"Do not use EVM information as a hammer"

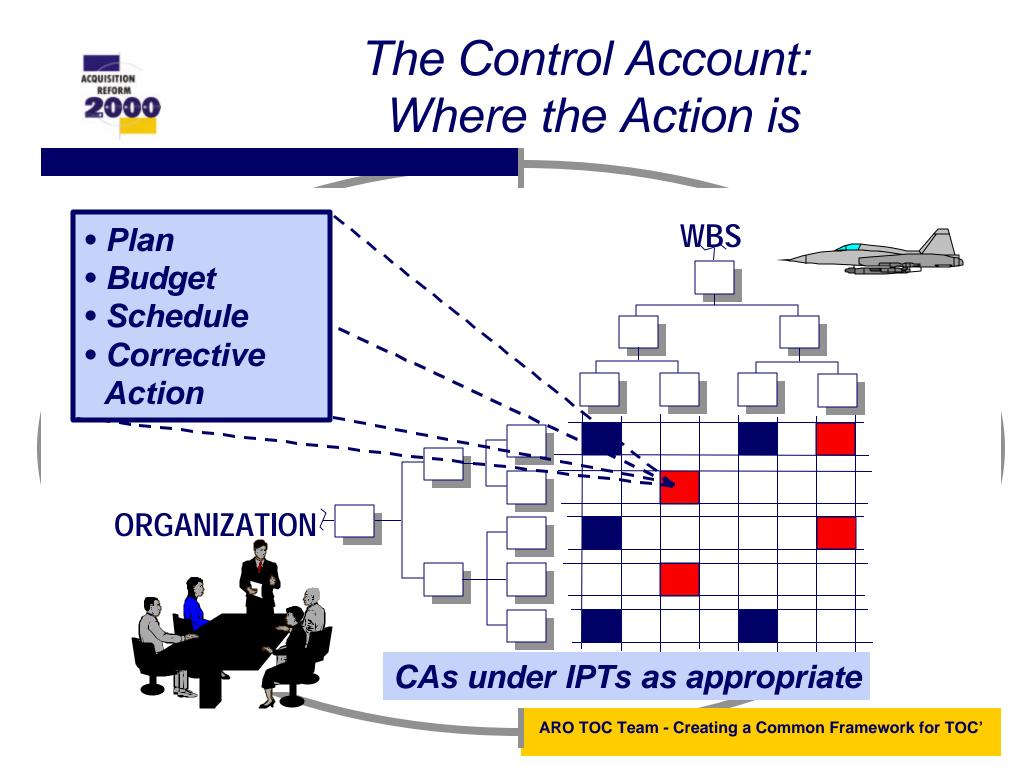




Work Breakdown Structure: The Key to Integration



6/21/99







Integrated Program Management Initiative

Model Program Objectives WBS IPTs Integrated Baseline Review (IBR) "Right Size" Reporting Integrated Digital Environment Training



Earned Value Management Courses

LOCATION OF EARNED VALUE MANAGEMENT COURSES http://www.dsmc.dsm.mil/courses/crslist.htm

Business, Cost Estimating, & Financial Management

The Following Information Is Available for Each EV Course: <u>Description</u> of the BCF 102 / 203 Course BCF-102 / 203 <u>Course Eligibility</u> Requirements & Prerequisites. BCF-102 / 203 Course POC BCF-102 / 203 Schedule. BCF-102 DL - Internet-based Course Available 1Q/FY00

Fundamentals Earned Value Course BCF-102

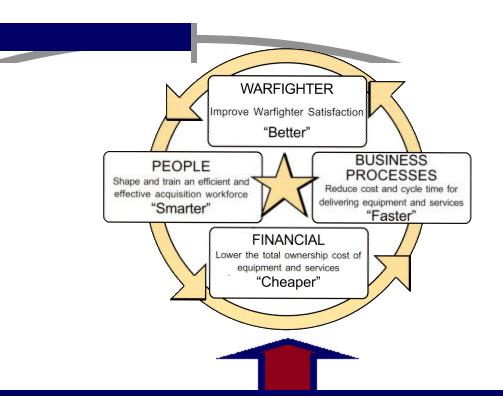
Now On-Line

Intermediate Earned Value Management Course BCF-203

2 - 3 Day 'Tailored' Courses (Fee For Service & Instructor Availability)



ARO FY00 Goal #3



ARO will work with five organizations to implement Activity Based Cost Management (ABCM) and incorporate Earned Value Management (EVM) into three projects or programs.

Champion: Mr. Willie Jones



"Irrevocable allocation of resources"





Benefits of EVMS

Single control system that provides reliable data.

- Integrates work, schedule, and cost using WBS structure.
- Data base of comparable projects useful.
- CPI provides early warning signal = not more than 10% change after 20% complete.
- SPI provides early warning signal.

- CPI predictor of final cost of project.
- Uses index based method to forecast final cost of project.

Management by exception principle can reduce management overload.



EVM is a key initiative of ASN(RD&A)

EVM is a tool for visibility into the program's progress

Leadership commitment is critical for EVM success

EVM is not a "Fire and Forget" system

EVM is used and accepted industry wide





DCMA HQ EVM Executive Agent

Bill Gibson, EVM Process Owner

DSMC

Lt. COL Dave Melton (EVM Department chair)

OASN(RDA), ABM

Charles Sell

OASN(RDA), ARO

Michael Skratulia

NAVSEA

Larry Kamitis, NAVSEA 017

NAVAIR

Ted Rogers, NAVAIR 4.2

SPAWAR

Mourad Yacoub, SPAWAR 016



www.acq.osd.mil/pm

www.dsmc.dsm.mil/courses/crslist.htm

www.acq-ref.navy.mil



EVM Preferred Tool

wInsight is a computer software tool specifically designed for analyzing performance analysis data. Tool supports the Integrated Product Development (IPD) management philosophy

- Flexible and easy to use to locate problem areas, analyze data, and update Estimate at Completion (EAC).
- DCMA recommends Contracting Administration Offices utilize wInsight as their primary Earned Value analysis tool.