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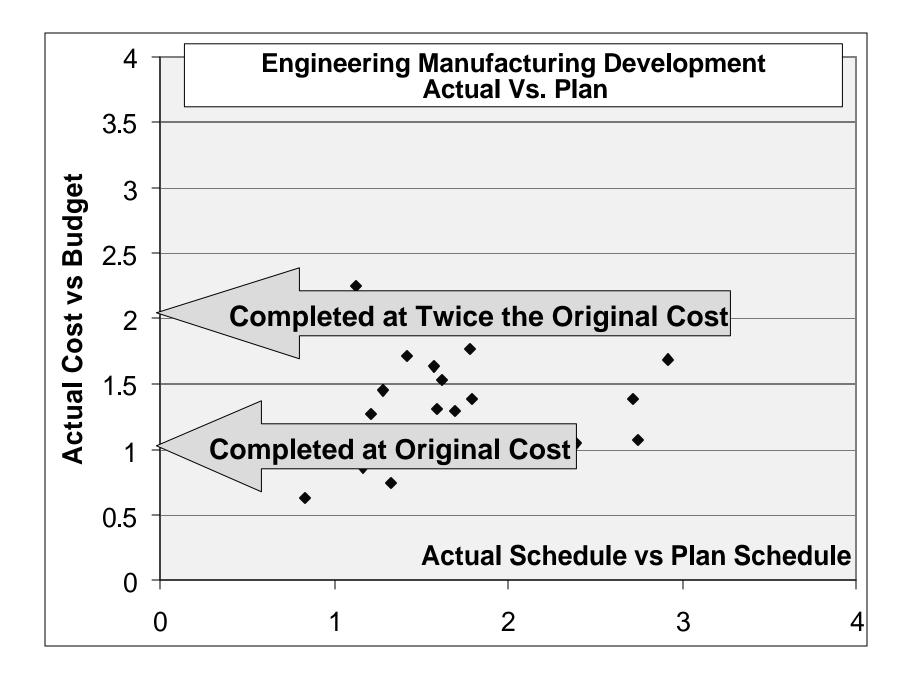
Earned Value Management as an Implementation Tool for CAIV

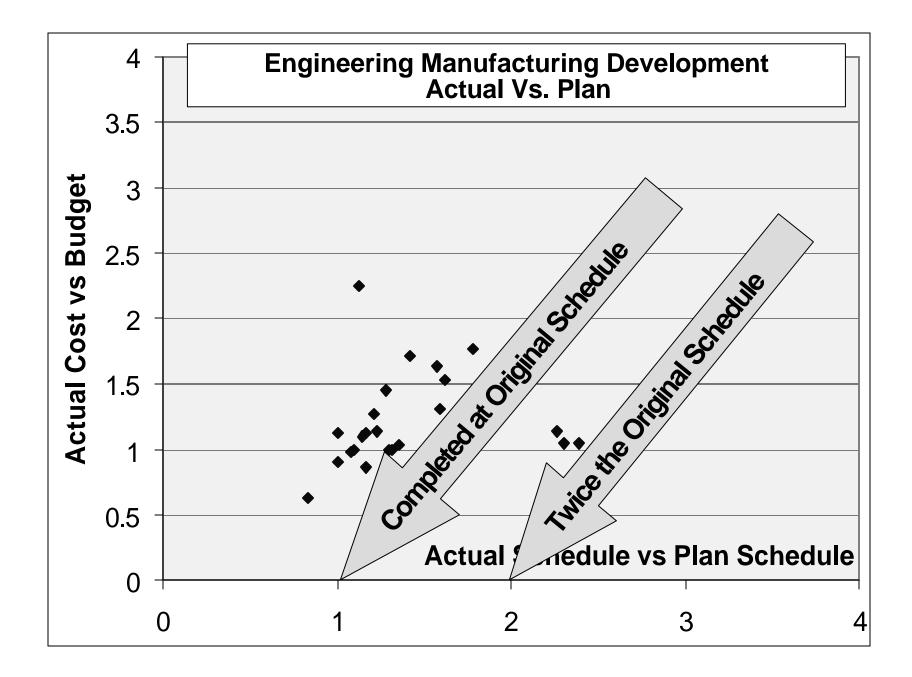


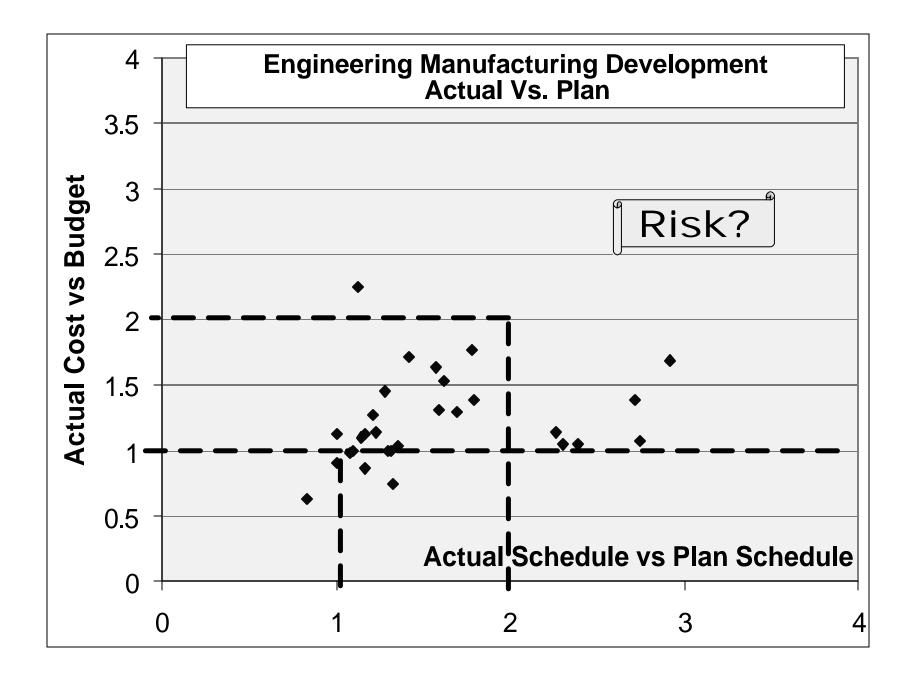
Professor Robert J. Bohls Sr.

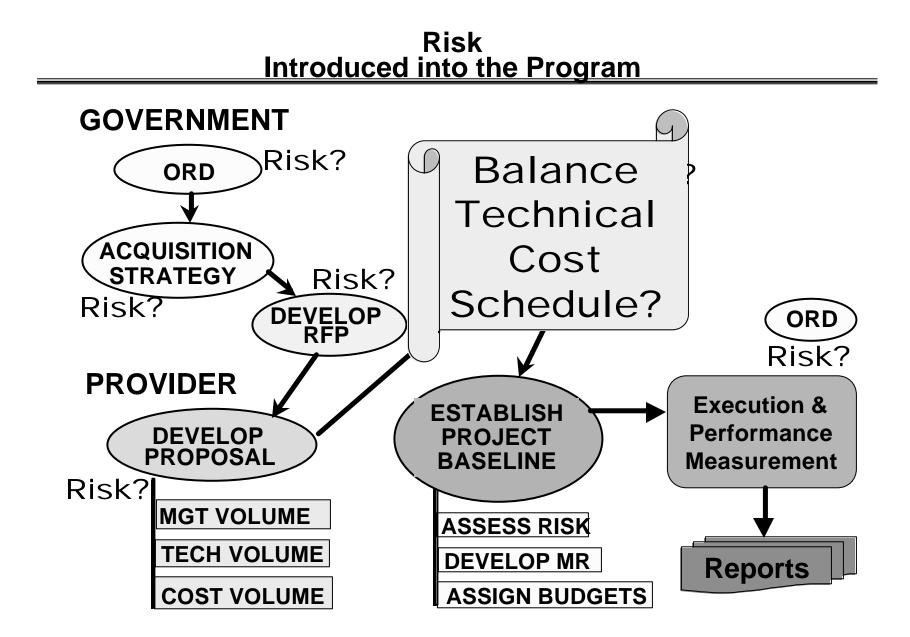
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- Program Risk
- Cost as an Independent Variable
- Generally Accepted
 Management Principles
- Management Principle's Myths

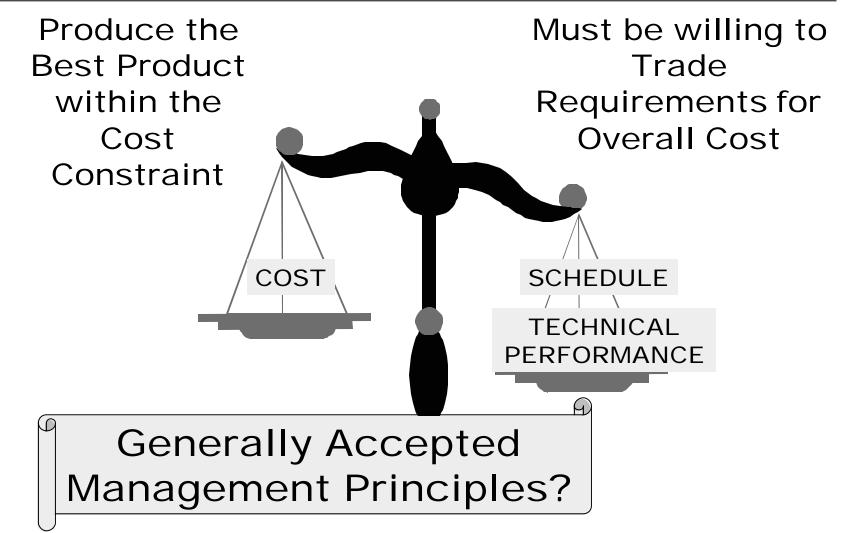




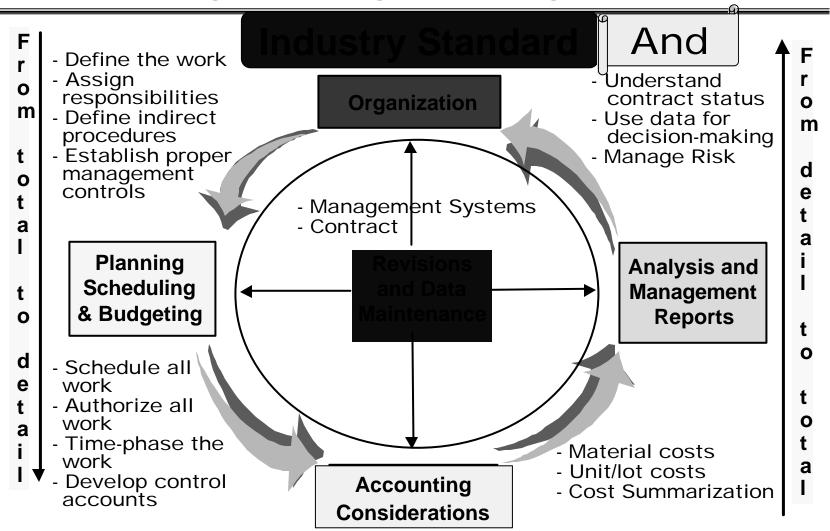


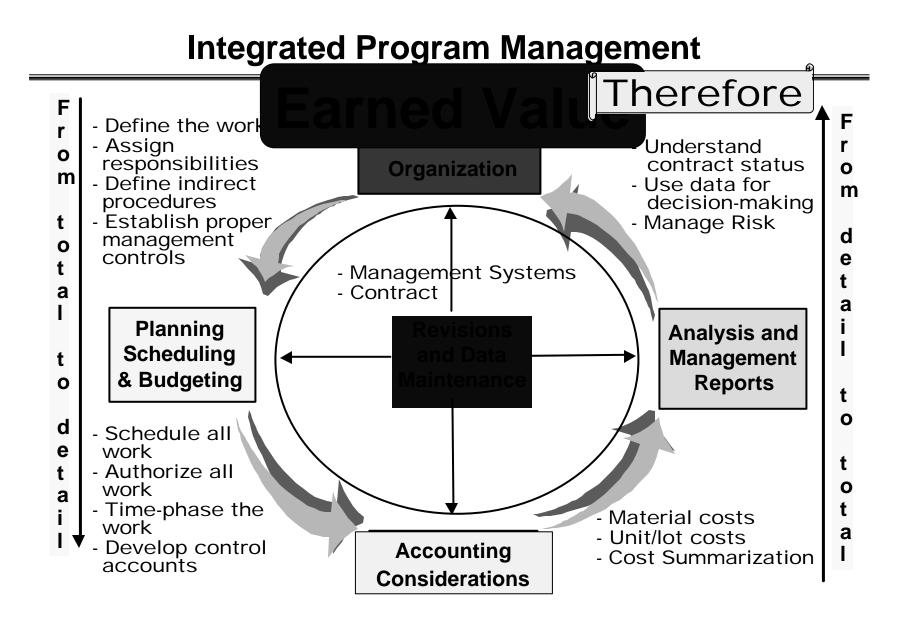


Cost As the Independent Variable PM Balancing Act

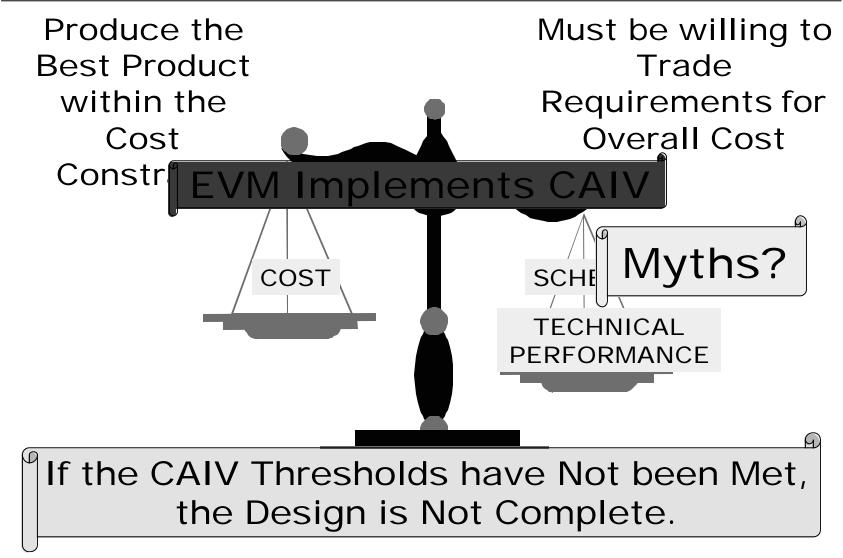


Integrated Program Management





Cost As the Independent Variable PM Balancing Act



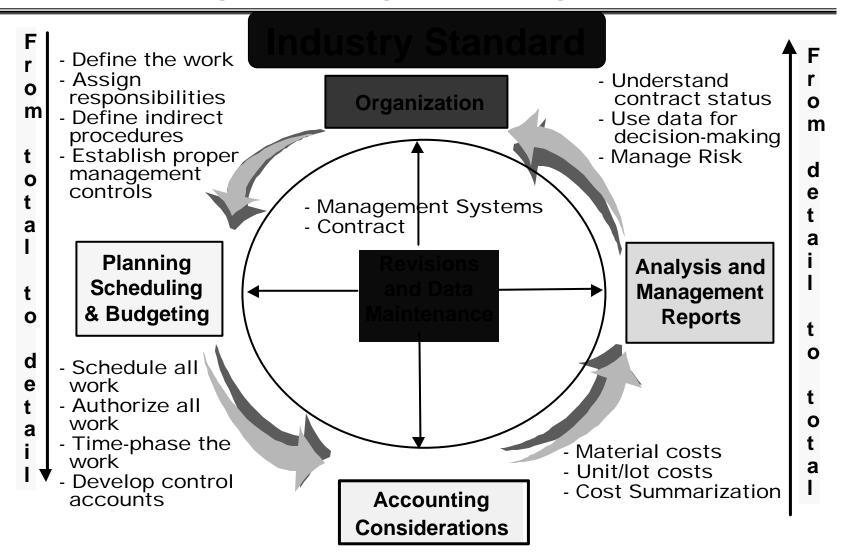
- Its not the way we manage
- EVMS is a government reporting requirement
- Data is too old to use
- Looks backward > not to the future
- Variances are bad
- Revising Baselines are Bad
- EVM costs too much

Myths of EVM

Its not the way we manage

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Integrated Program Management

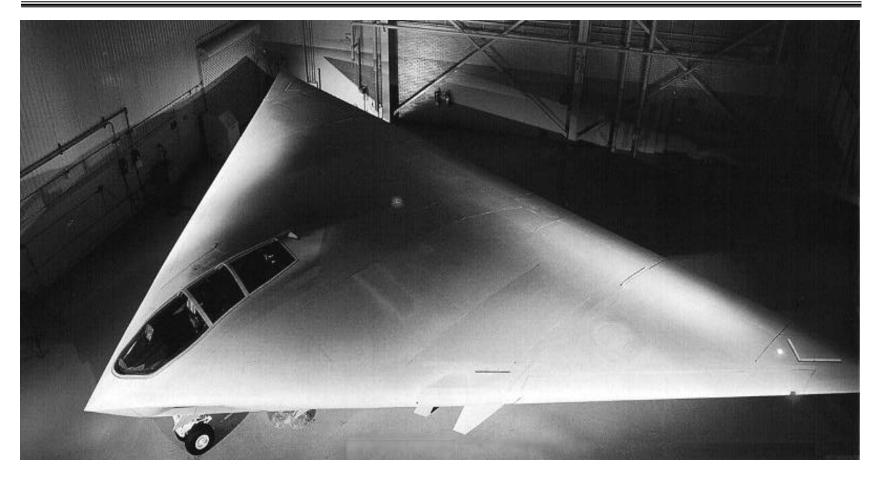


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A-12 The Plane That Never Was



- 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.

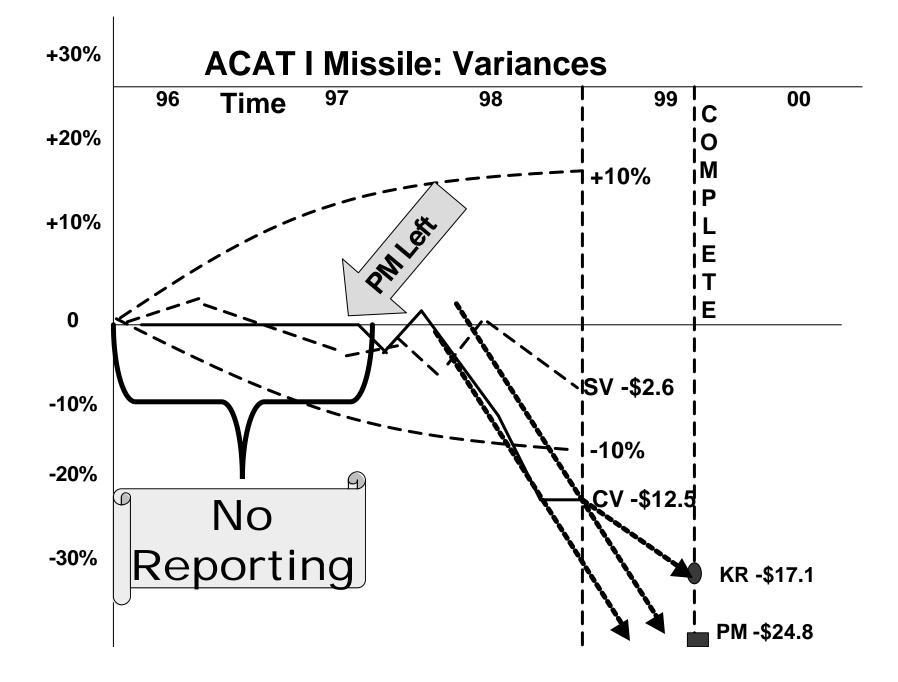
A-12 Lesson Learned

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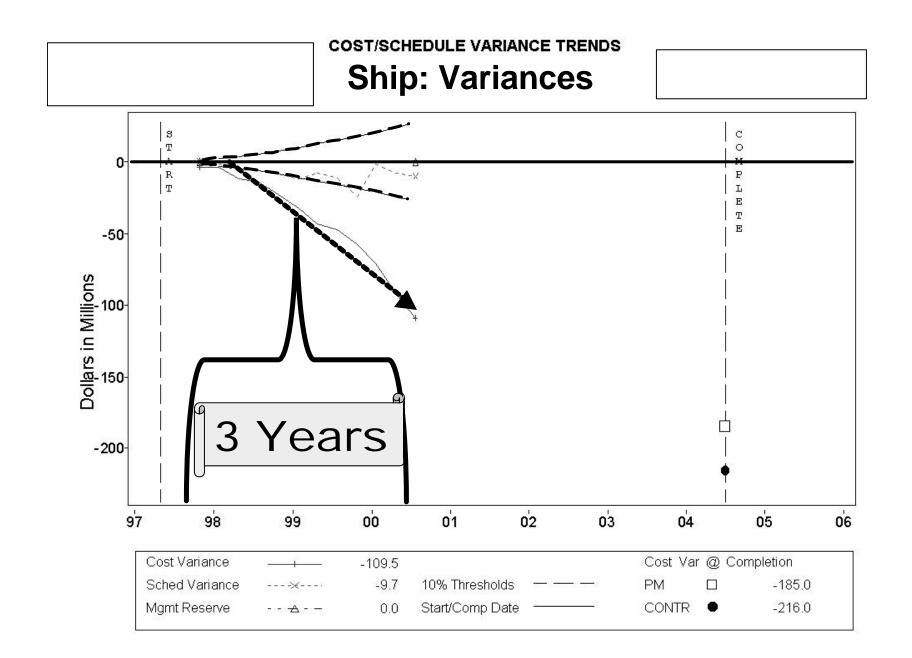
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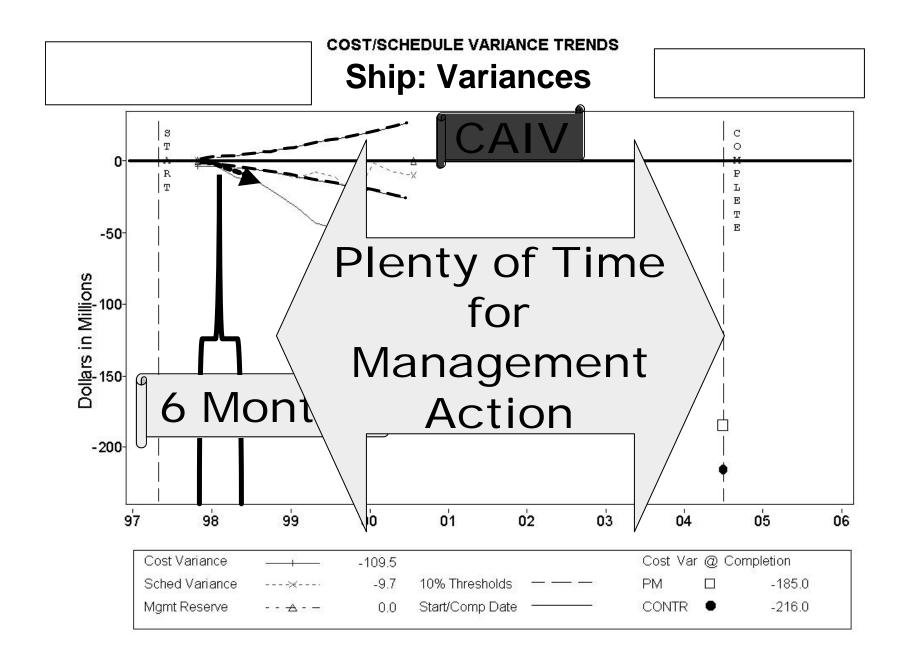
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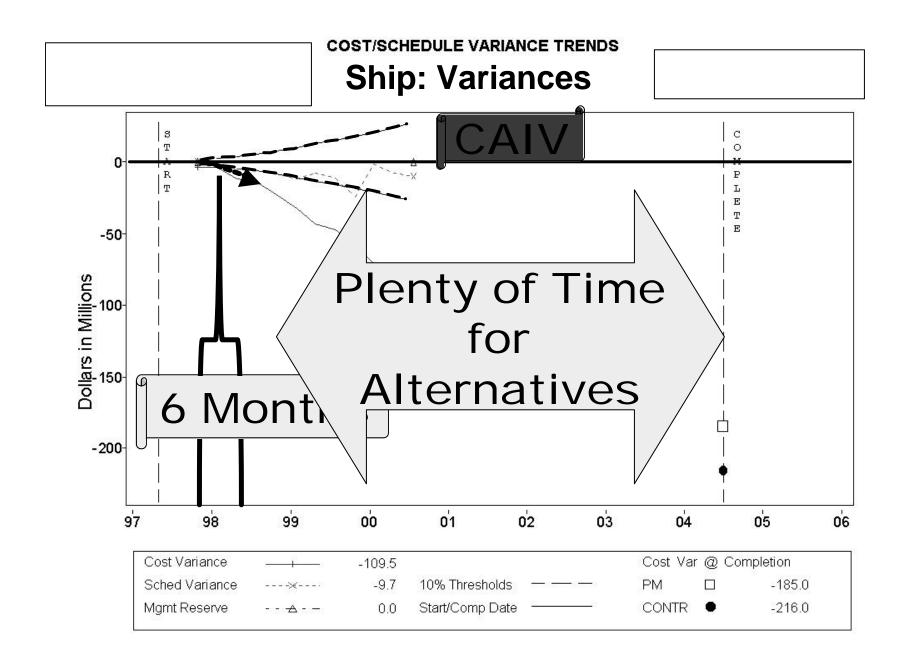
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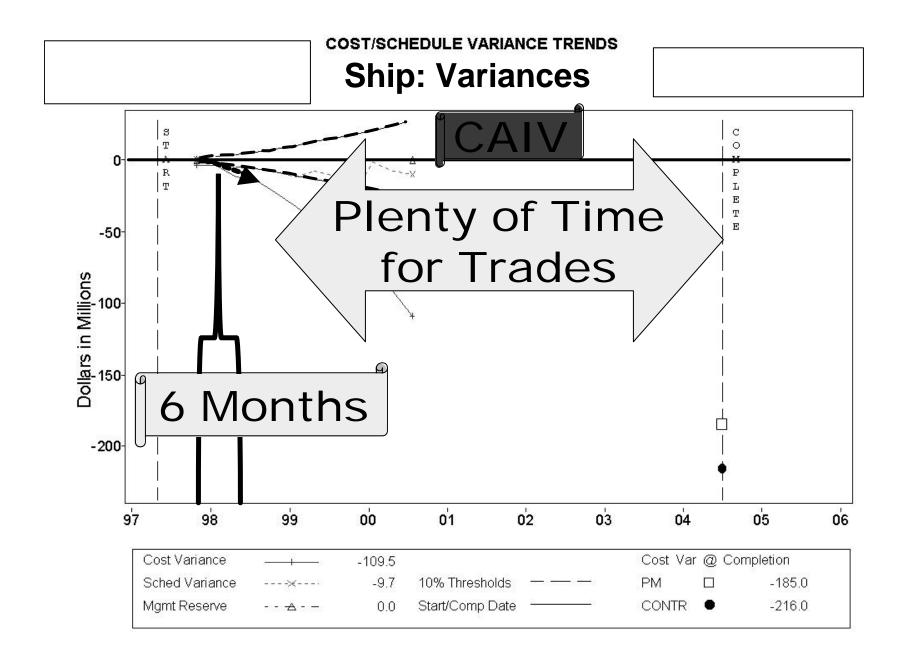


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F/A 18 E/F Program

Mike Sears:

Trust



have

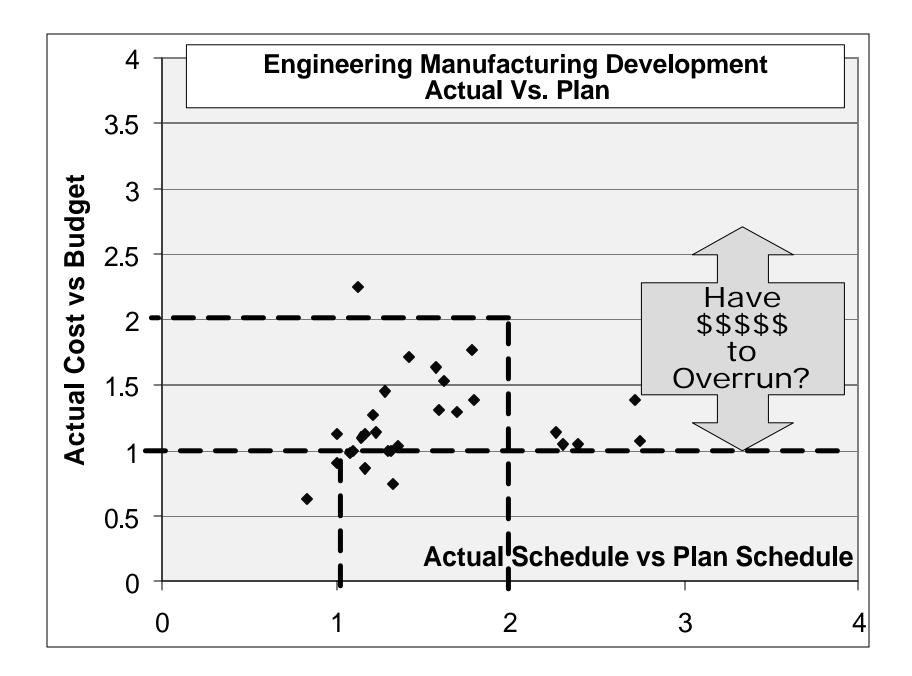
Time?

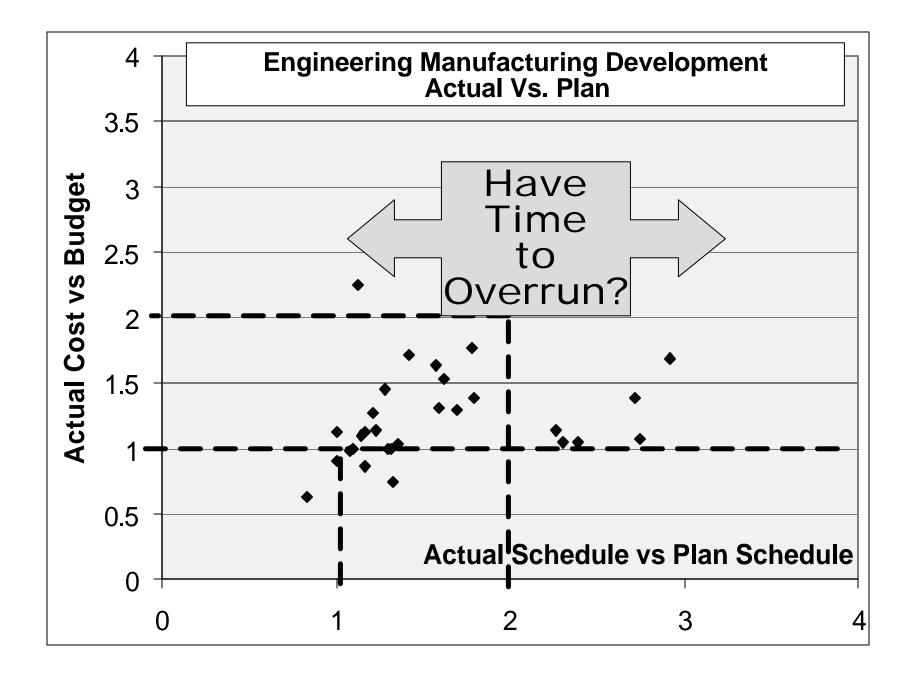
"Weekly EVM reporting so team leaders have the results of their actions quickly."

"Technical people find detail planning extremely difficult, don't like to do it. It is hard to do but it is absolutely essential to take that first step."

"We don't know all of the detail ahead of time. It is that learning process of pulling the plan together where you find lots of things that you never find if you "Don"

President, McDonnell Douglas A12 Program

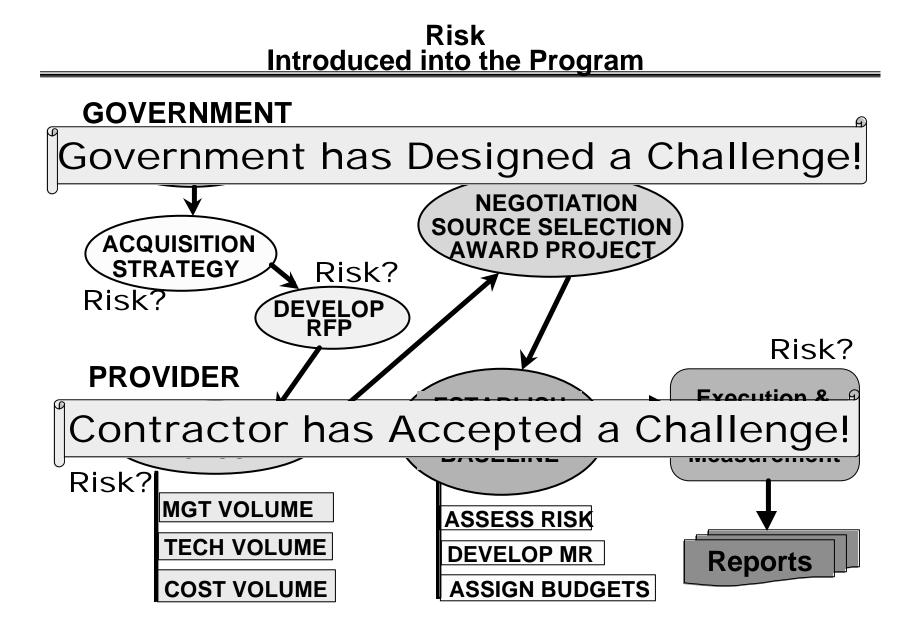


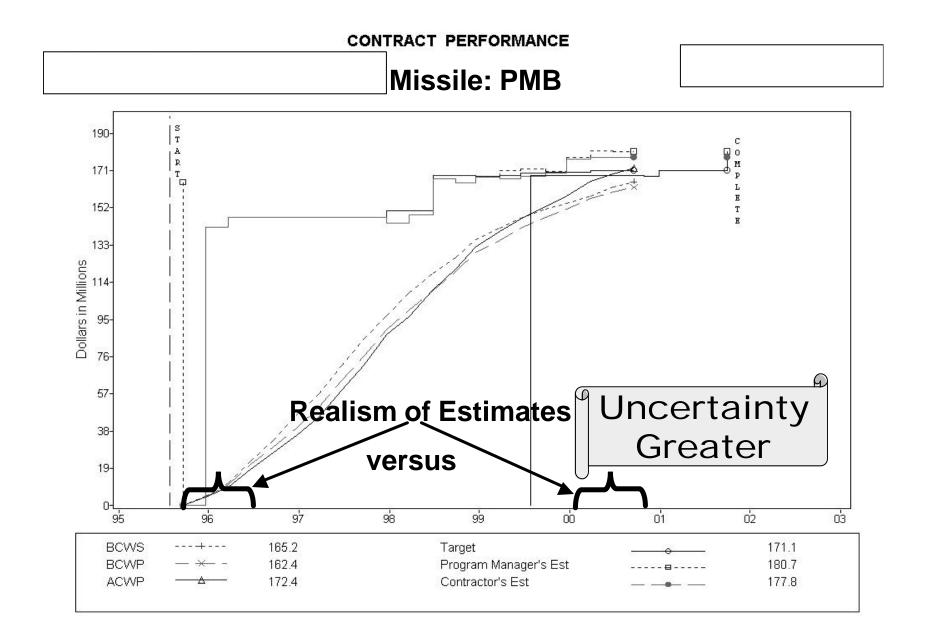


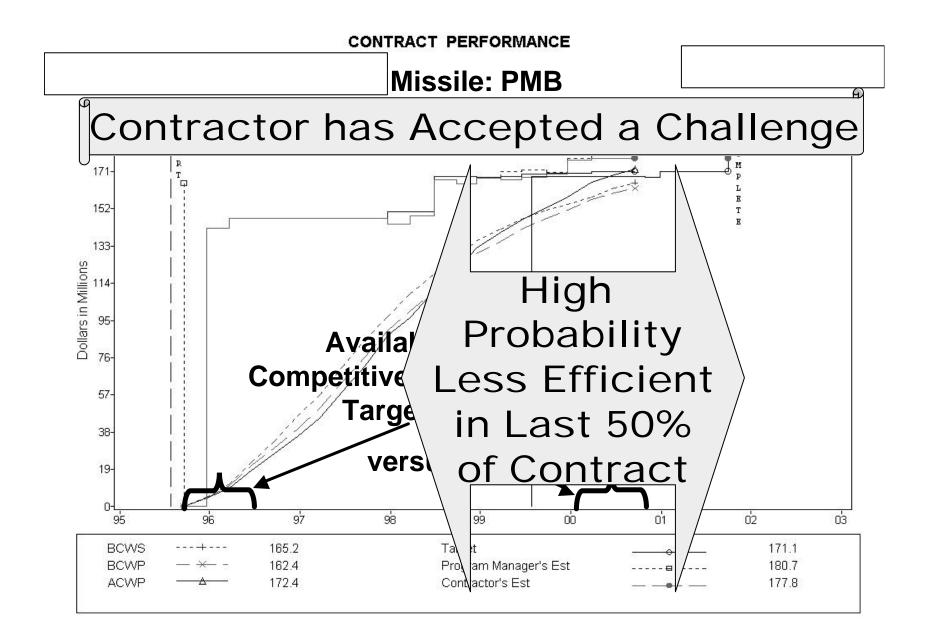
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- When a contract is more than 15% complete & more than 10% overrun:
 - The overrun at completion will be more than the overrun incurred to date
 - 2. The percent overrun at completion will be greater than percent overrun incurred to date
 - Based on OSD database of more than
 500 major DOD contracts since 1977

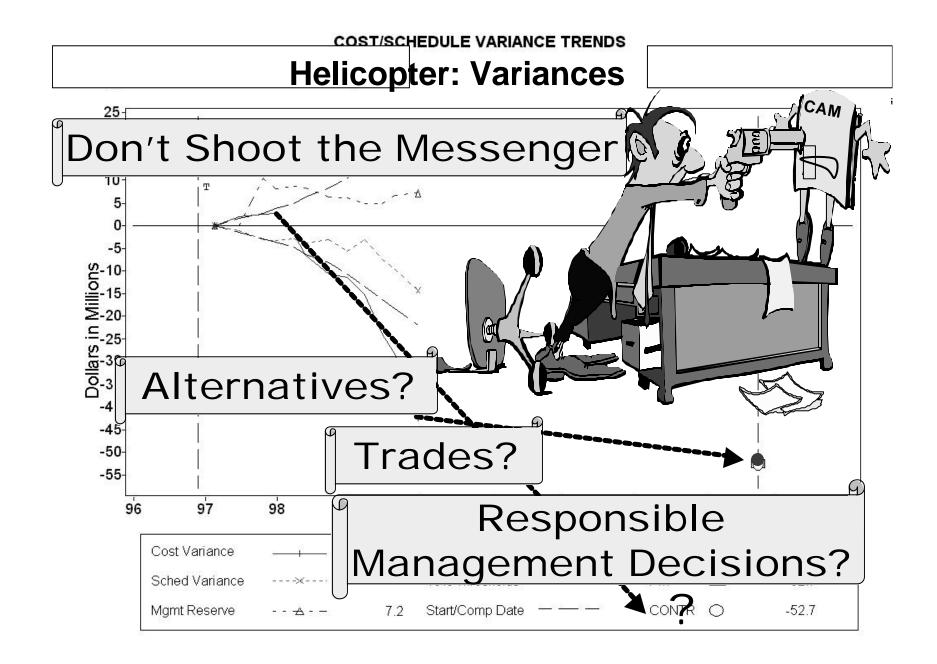




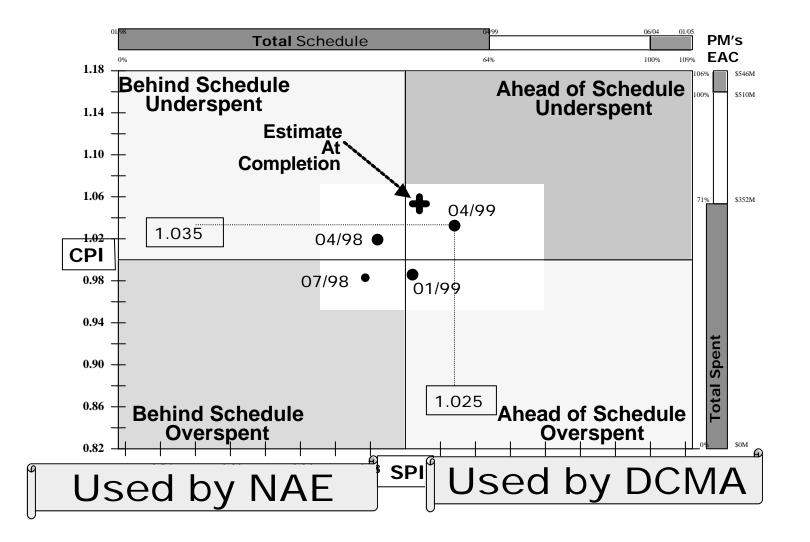


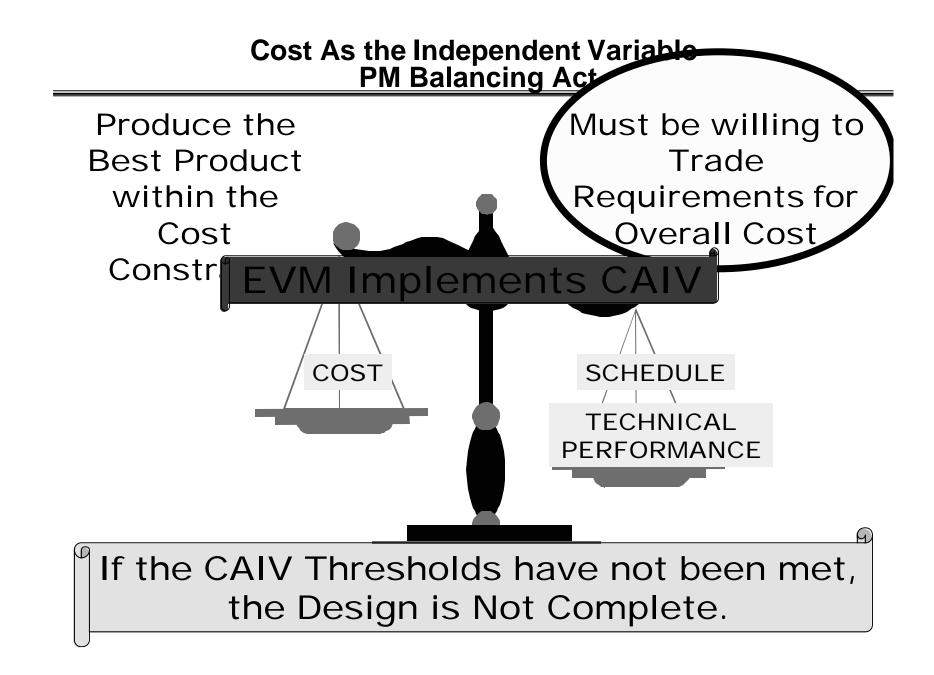


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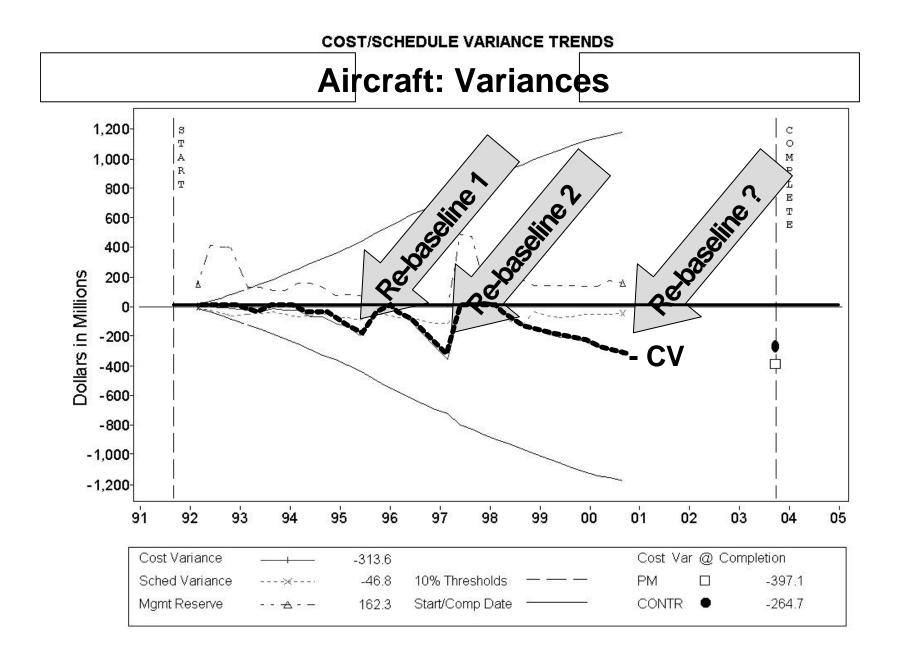


Performance Overview





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"... management systems were closely aligned with ... C/SCSC compliance; they could not be reset without contractual relief. Without a reset, large variances occurred between existing contractual requirements and actual plans. The system could not handle such variances, and ad hoc systems began to evolve ... ad hoc systems could not keep pace and disconnects resulted, significantly impacting the Production Plan."



What happens without Rebaseline?

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- CEO to USD(A&T) June, 1993

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- CEO to USD(A&T) June, 1993

- Contractor's Management System
 - Need to Manage the Contract Effort is Paramount to All other Considerations!
 - Contractor must have the Ability to Use its Own Management Systems!
- EVMS is not:
 - A Government System
 - Reporting System
 - Contract Administration
 - Accounting
 - Cost Apalysis
 - A Method of Punishment

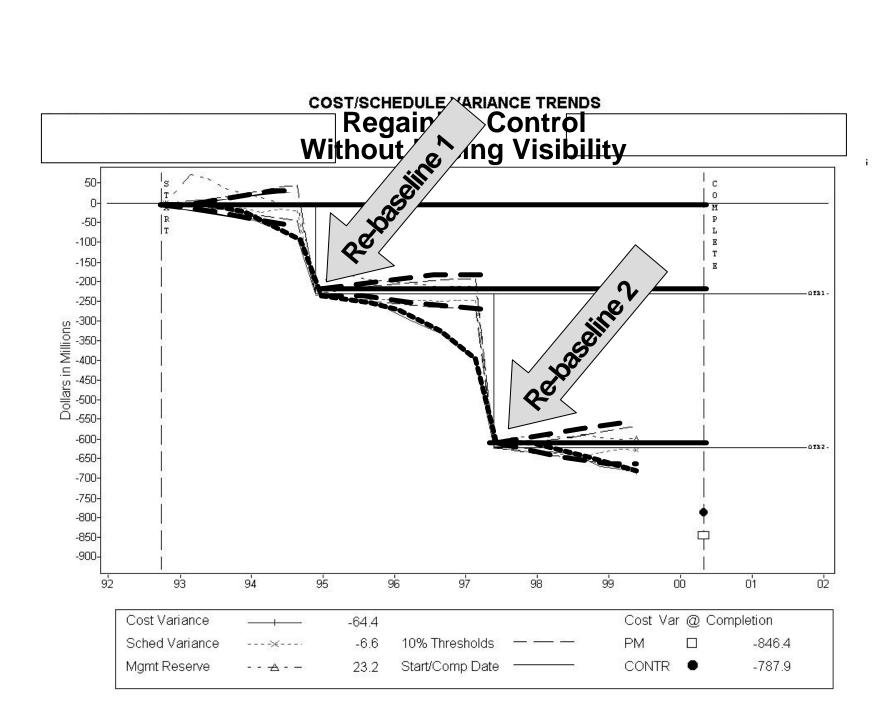
- Failure to Re-baseline leads to:
 - Two Sets of Books
 - Loss of Control

BUT

- Re-baseline without Discipline leads to:
 - Rubber Baseline
 - Loss of Control

And

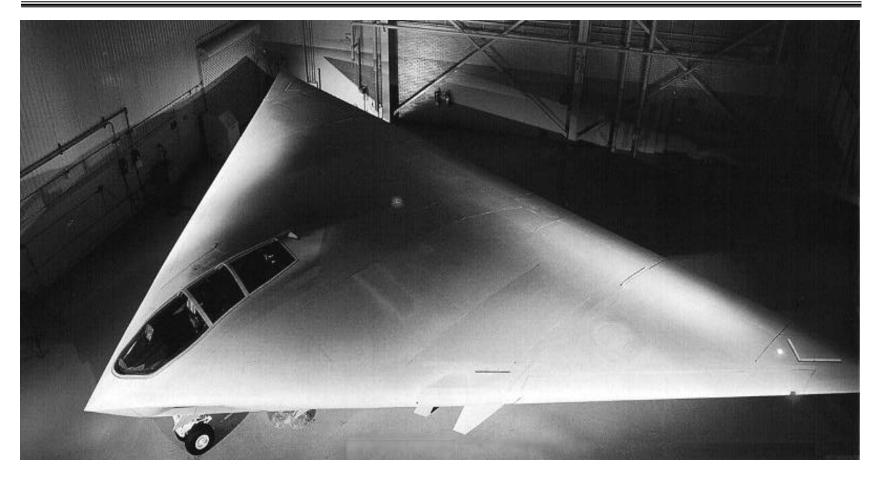
• Re-baseline does NOT change a Contract from "Red" to "Green"!!



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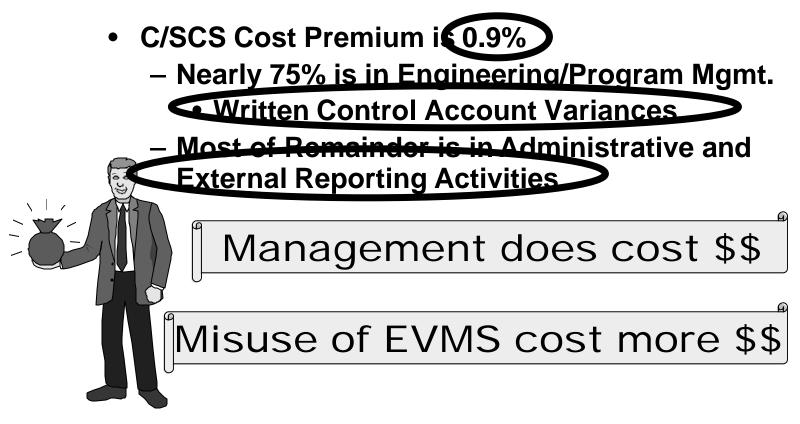
A-12 The Plane That Never Was



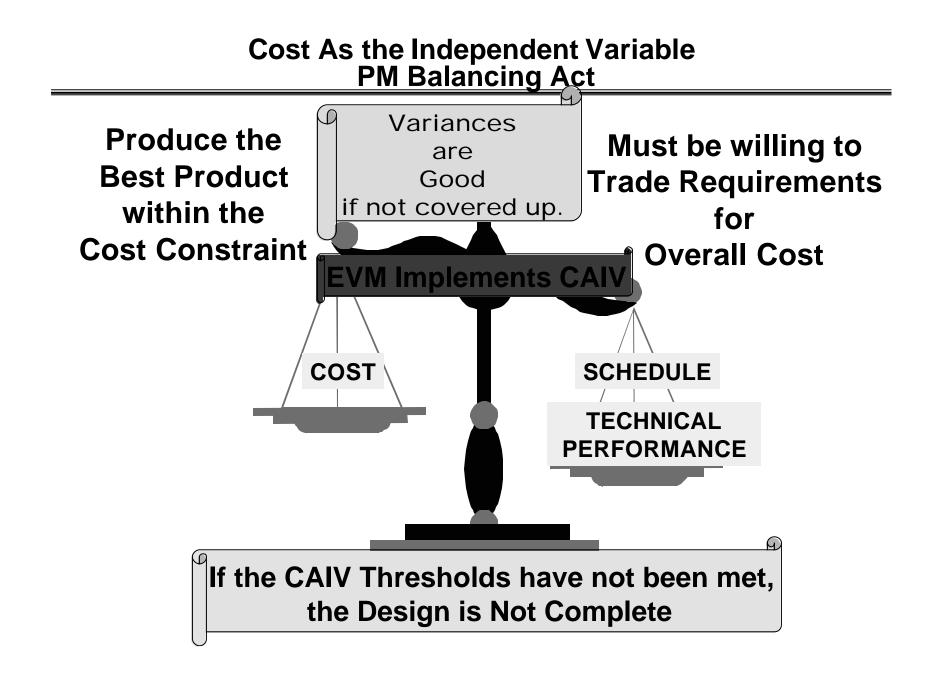
A-12: The Human Cost

Position/Person	<u>Action</u>
USD(A)	Resigned
COMNAVAIR	Early Retirement
PEO	Censured; Reassigned
Program Manager	Censured; Reassigned
McAir Program Manager	Reassigned
GDFW Program Manager	Reassigned

C&L/TASC Cost Drivers: Cost Without a Requirement



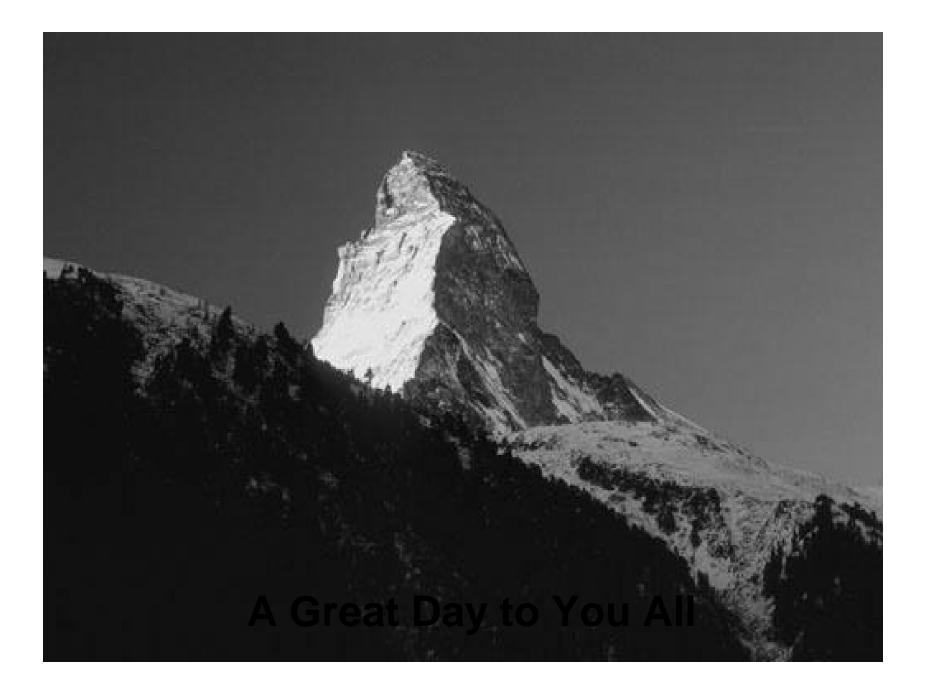
Coopers & Lybrand/TASC Study: "The DoD Regulatory Cost Premium: A Quantitative Assessment" December, 1994

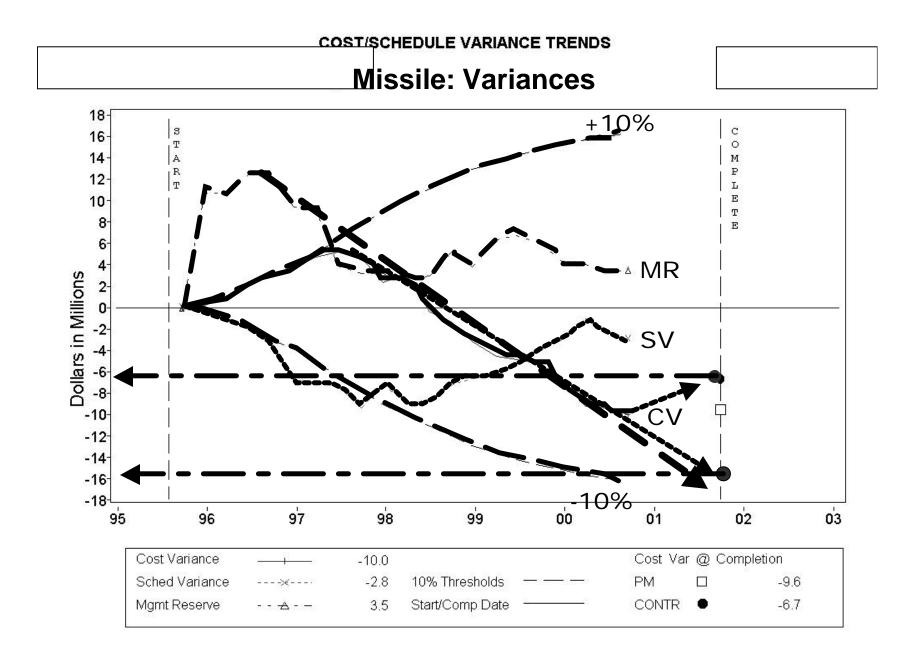


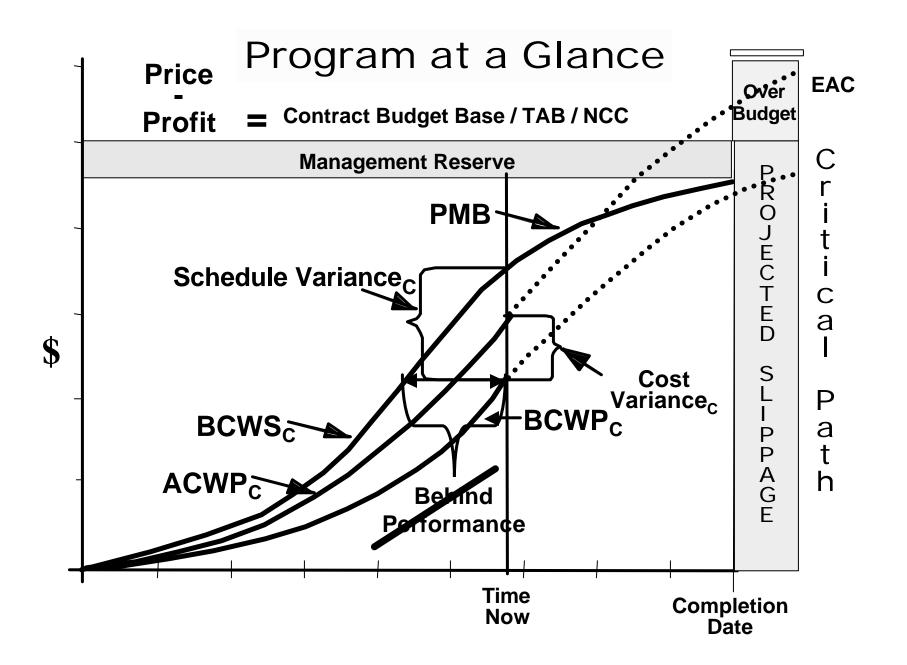
Defense Acquisition University

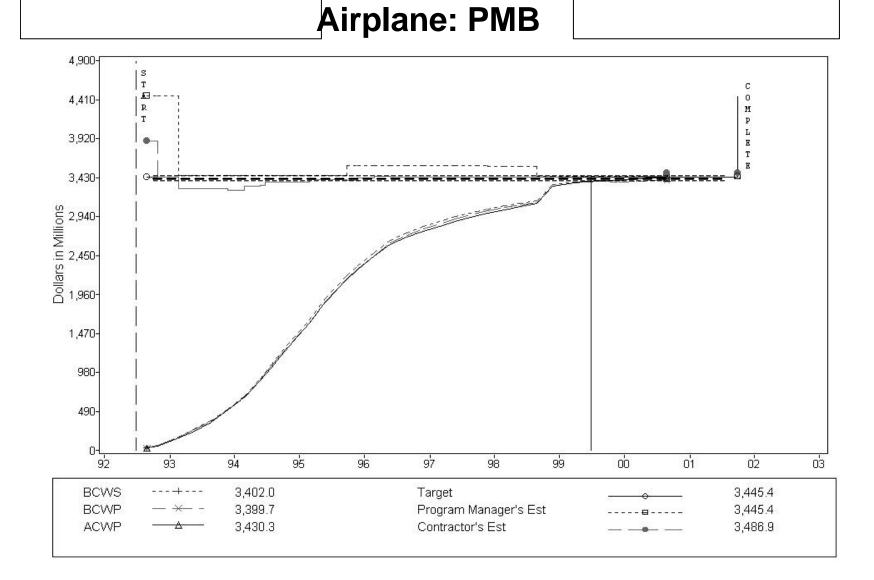


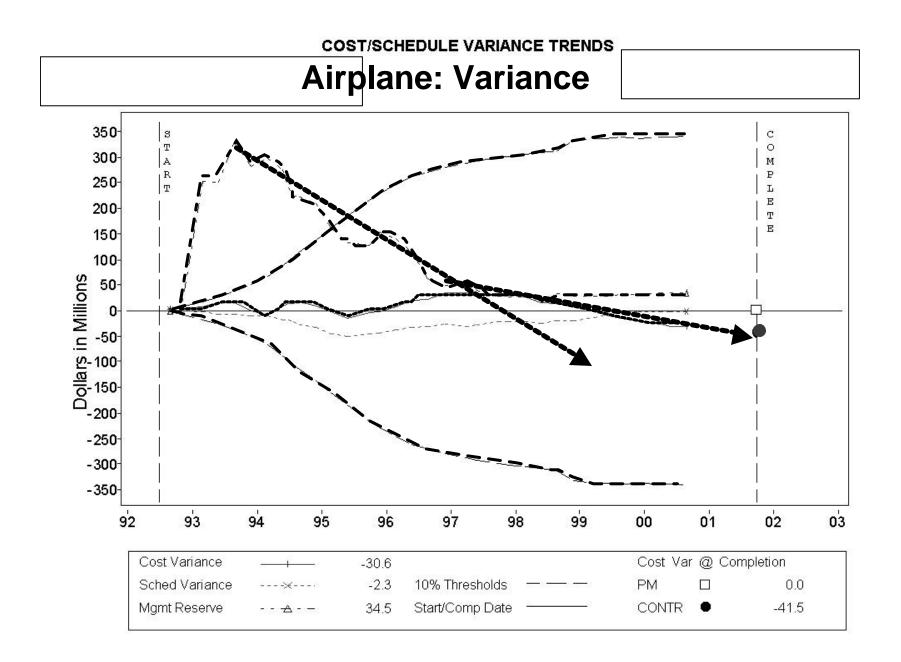
Education for the Acquisition Professional

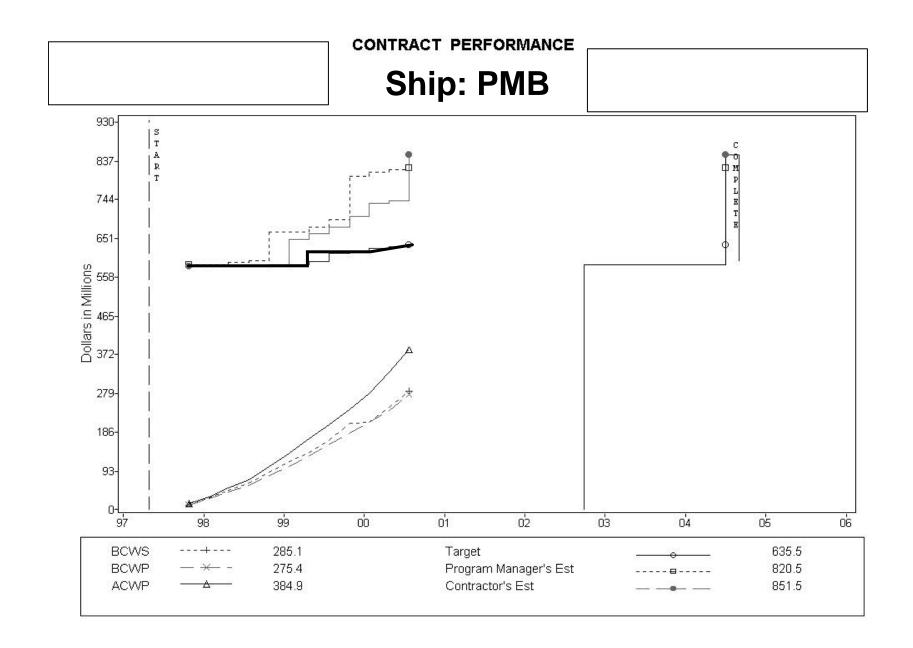


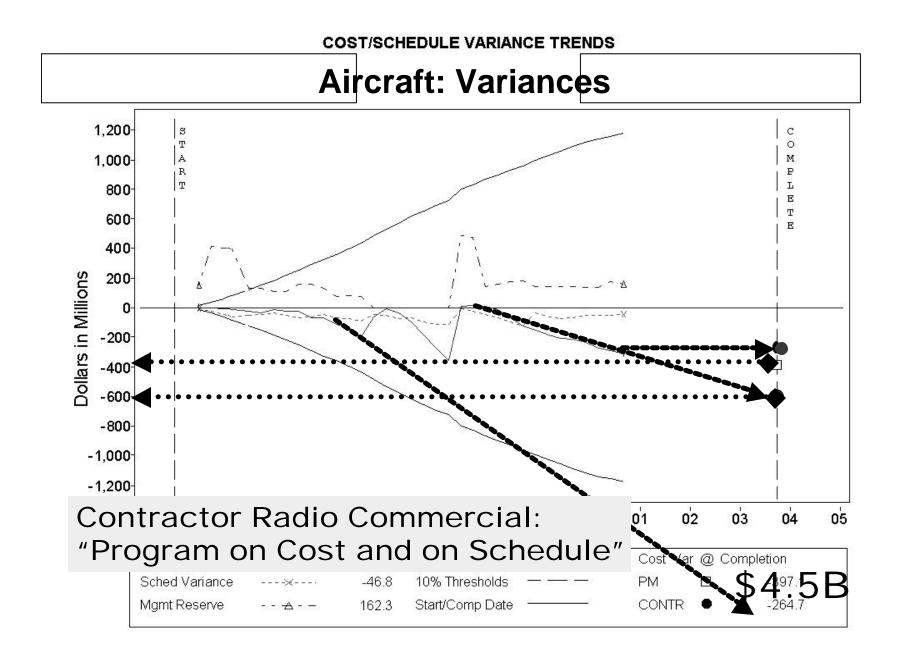


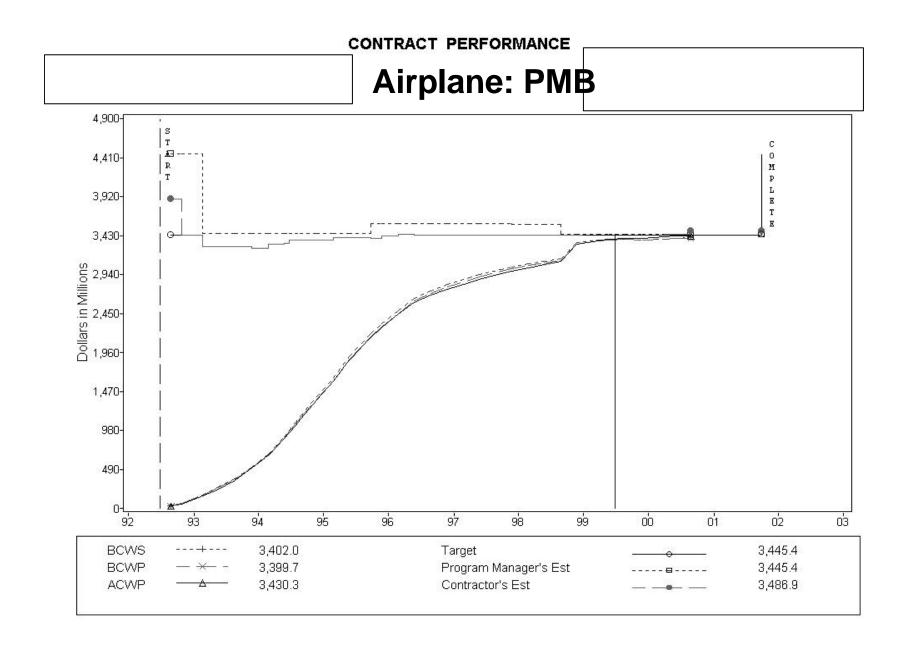


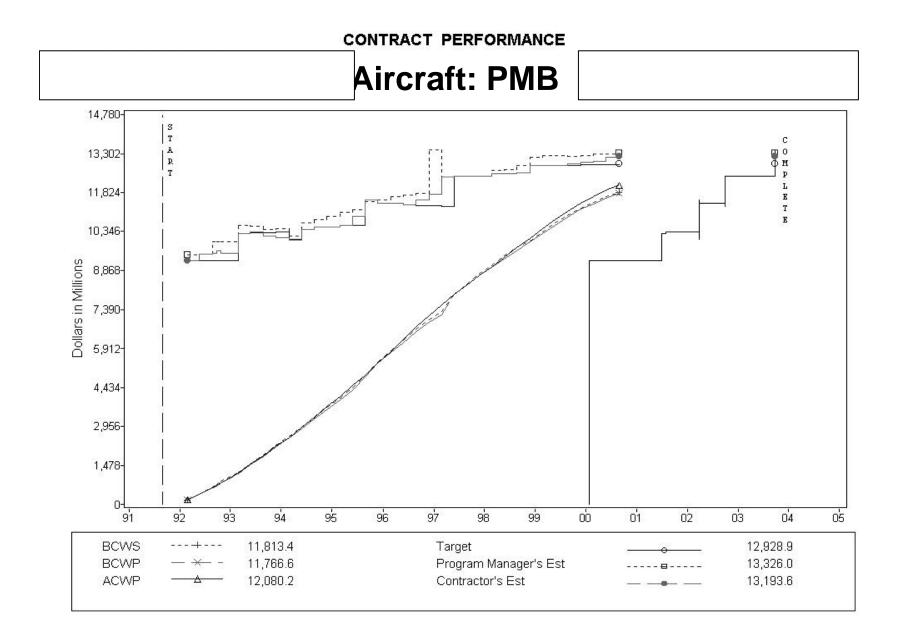












OTB Approval A Management Decision

- Need to Manage the contract effort is Paramount to All other Considerations!
- Three Conditions:
 - Problem is Understood
 - New Plan is Ready
 - Contractor needs OTB to effect Proper Management Control
- Issue goes to the Heart of EVMS Ownership and Reform

What Does the Data Really Mean ?

- "In summary, the PM underestimated the cost implications of adverse engineering and manufacturing process data...." p.12
- "The PM testified that when he noted that the contract was funded to ceiling, all interest in FSD cost evaporated." p.23
- "The CAIG cost analyst...memo concludes: 'The A-12 FSD contract is a fixed price incentive contract, and the Navy has budgeted to its ceiling, so the government's liability is covered'." p.25
- "...it is apparent that MAR participants at the working group level did not share a clear vision of the relationship between cost and schedule risk and the contractor team's ability or willingness to perform within the FSD contract." p.28

Roadmap - Requirement to Competitive Advantage

- Common Business Processes are at the Core of EVM
 - Suppliers are Realizing Savings, Efficiencies
 - Management Systems are a Competitive Advantage
- "Good Management Effect"
 - LM study: Relationship Between Effective Management Practices and Desired Results such as Re-win Rate, Good CPARS and Award Fee Ratings and Higher Return on Sales

Program by program application isn't good enough