



**IMPROVING PROGRAM PERFORMANCE
PRESENTED TO:
OPEN ARCHITECTURE VS OPEN SYSTEMS?
CONFERENCE
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OVERVIEW

- **OPEN ARCHITECTURE BUSINESS CASE**
- **NAVAIR PROGRAMS EXECUTION STATUS**
- **SUMMARY**

VISION

*“ My vision for OA **isn’t limited** to systems built to a **set of open standards**, but rather it is focused on **open business models** for the acquisition and spiral development of new systems that enable multiple developers to **collectively and competitively** participate in cost-effective and innovative capability delivery to the Naval enterprise.”*

- CNO ADM Mullen, Defense Daily , 11 September 2006



WHY DO WE NEED OPEN ARCHITECTURE?

NAVAL OPEN ARCHITECTURE IS A TECHNICAL SOLUTION (OPEN SYSTEMS) TOGETHER WITH AN OPEN ACQUISITION BUSINESS MODEL

- **LIFE CYCLE COST**
- **TIME TO MARKET (LOWER COST AND RAPID CAPABILITY INSERTION)**
- **BUSINESS ANALYSIS IS REQUIRED TO DETERMINE OPEN ARCHITECTURE VALUE**

Must Align Naval OA LCC Technical & Business Strategies

PROGRAM PERFORMANCE TEAM

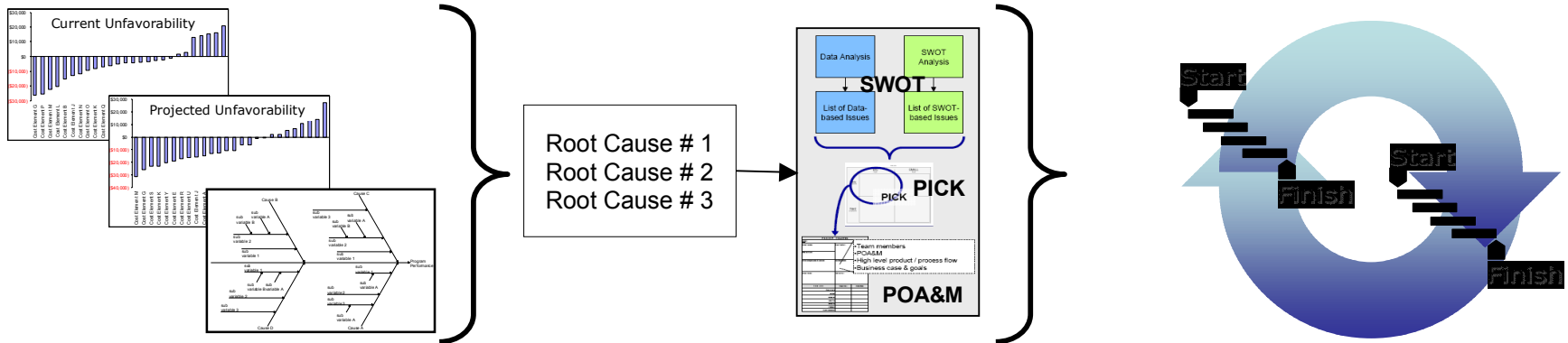
OBJECTIVE: IMPROVE THE PLANNING AND EXECUTION OF NAVY AND MARINE CORPS AIR PROGRAMS

STRATEGY: IDENTIFY ROOT CAUSES FOR CONTRACTOR COST AND SCHEDULE OVERRUNS
IMPLEMENT JOINT GOVERNMENT AND CONTRACTOR COUNTERMEASURES TO OVERRUNS

TACTICS: USE OF CONTRACTOR PERFORMANCE REPORTS (CPR) TO IDENTIFY UNDERPERFORMING AREAS
DATA DRIVEN ROOT CAUSE IDENTIFICATION
HYPOTHESIS TESTING USING SCIENTIFIC METHODS
PERFORM MULTIPLE JOINT LEAN SIX SIGMA PROJECTS TARGETING CONTRACTOR UNDERPERFORMANCE

TRANSFORM DATA INTO INFORMATION FOR ACTION & PERFORM COLLABORATIVE IMPROVEMENT ACTIVITIES

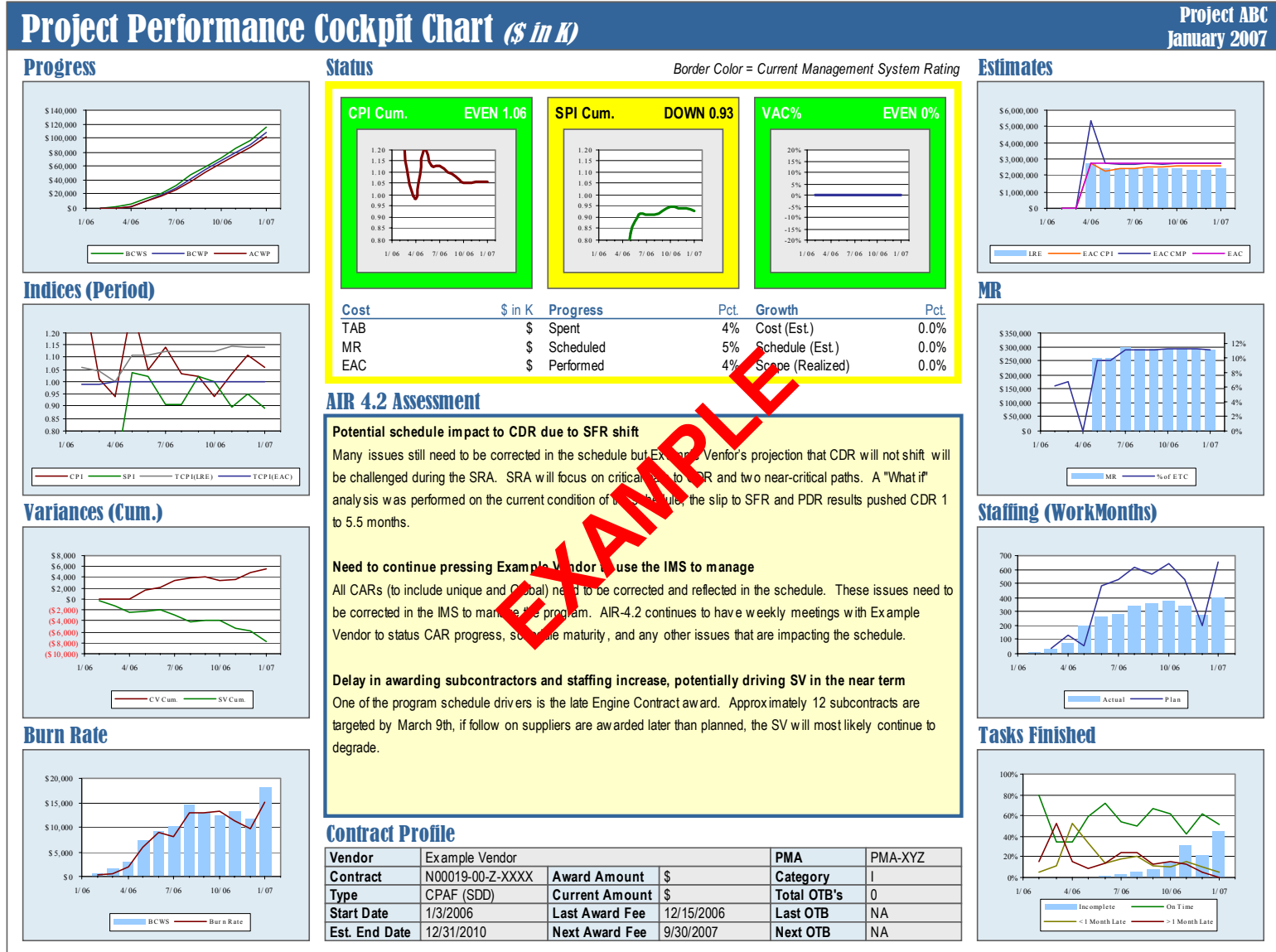
COLLABORATIVE IMPROVEMENT WORKFLOW



PROVEN IMPROVEMENT TECHNIQUE

PROJECT COCKPIT CHART

DEPLOYED JAN. 2007



PROGRAM PERFORMANCE TEAM FINDINGS

IMPROVE PLANNING

- **PERFORM SCHEDULE RISK ASSESSMENT (SRA) AS PART OF SOURCE SELECTION**
- **IMPROVE CONTRACTOR SCHEDULE QUALITY PRIOR TO MILESTONE B**
- **PERFORM INTEGRATED BASELINE REVIEW (IBR) PRIOR TO MILESTONE B**
- **IMPROVE QUALITY OF COST, SCHEDULE, AND REQUIREMENTS HARMONIZATION EFFORTS DURING PRE-SD&D**
- **PERFORM LEVEL 2 REVIEW AND CONCURRENCE OF THE COST ANALYSIS REQUIREMENT DOCUMENT (CARD)**
- **ESTABLISH SD&D METRICS PRIOR TO MILESTONE B**

IMPROVE EXECUTION

- **STAFFING, SPENDING, AND WORK DELINQUENCY METRICS SERVE AS EARLY WARNING SYSTEMS**
- **CLOSELY MONITOR AND MITIGATE BILL OF MATERIALS (BOM) GROWTH**
- **USE SCHEDULE RISK ASSESSMENTS (SRA) TO IDENTIFY AND PREVENT PERFORMANCE PITFALLS**
- **ESTABLISH AND MAINTAIN SUBCONTRACTOR / SUPPLY CHAIN / MATERIAL PERFORMANCE VISIBILITY**
- **ESTABLISH CONTRACTOR / GOVERNMENT COLLABORATIVE IMPROVEMENT ACTIVITY CYCLES THROUGHOUT ALL PROGRAM PHASES**

TRANSFORMATIONAL IMPACT TO PROGRAM PERFORMANCE IS ACHIEVABLE

SUMMARY

- **DEVELOPMENT PROGRAM PERFORMANCE MUST BE IMPROVED**
- **BUDGET IMPERATIVE TO REDUCE LCC OF NAVAL SYSTEMS**
- **OPEN ARCHITECTURE DESIGNS FACILITATE RAPID CAPABILITIES INSERTION AT AN AFFORDABLE COST**
- **OPEN ARCHITECTURE IS ABOUT INCREASING COMPETITION AND COLLABORATION**
- **OPEN ARCHITECTURE WILL HELP ENABLE AN AFFORDABLE NAVY OF THE FUTURE**
- **MUST DEVELOP AN INTEGRATED OA STRATEGY THAT ADDRESSES**
 - **TECHNICAL, BUSINESS MODEL AND CULTURAL BARRIERS**

BACK-UP

NAVAL OPEN ARCHITECTURE

NAVAL OA FIVE PRINCIPLES

1 *Modular design and design disclosure*

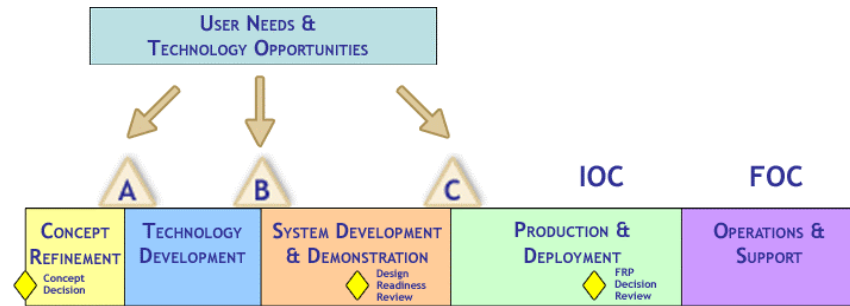
2 *Reusable application software*

3 *Interoperable joint warfighting applications and secure information exchange*

4 *Life cycle affordability*

5 *Encouraging competition and collaboration*

• OA PRINCIPLES MUST BE APPLIED THROUGH OUT SYSTEM'S LIFE CYCLE FRAMEWORK



• NAVAIR OA TECH. AUTHORITY OBSERVATIONS/RECOMMENDATIONS:

PRINCIPLE # 1:

GOOD ACCOMPLISHMENTS

OA CONTRACT GUIDE BOOK LANGUAGE USED

PRINCIPLE # 3:

HIGH COMPLEXITY

VARIOUS DOD WIDE STAKEHOLDERS

OA PRINCIPLES MUST BE APPLIED TO FORCENet

PRINCIPLE # 2, 4, 5: (*AFCEA BREAK-OUT SESSIONS*)

SIGNIFICANT LCC COST DRIVERS!

BARRIERS-ENABLERS MUST BE IDENTIFIED