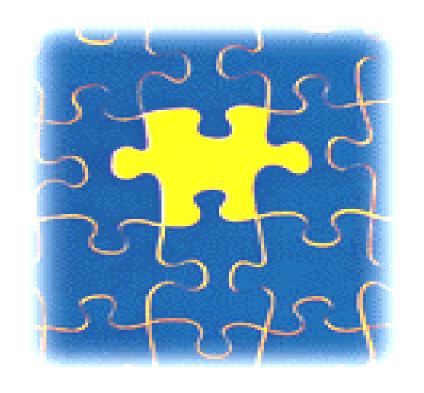
# Earned Value & Project Management



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May 15, 2003

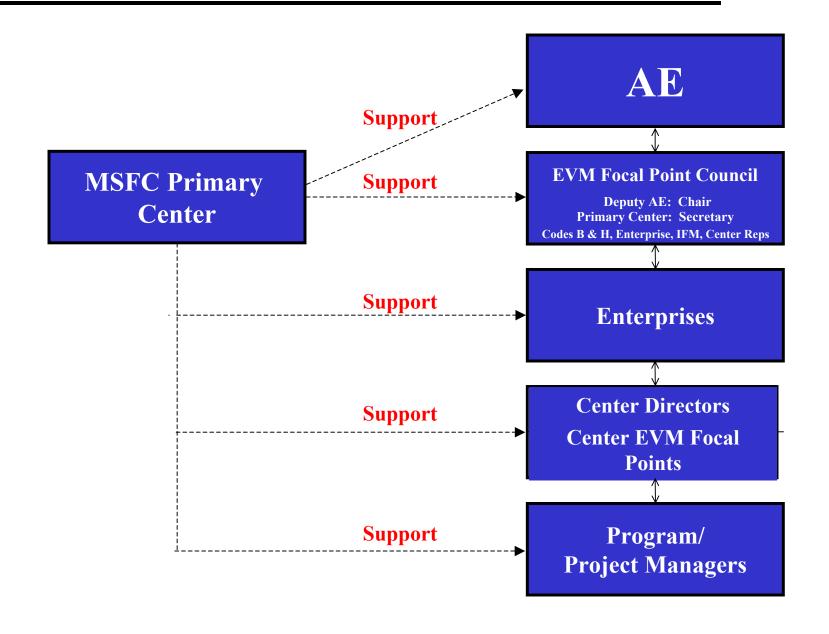
NASA EVM:
We're Moving
to Project
Management!



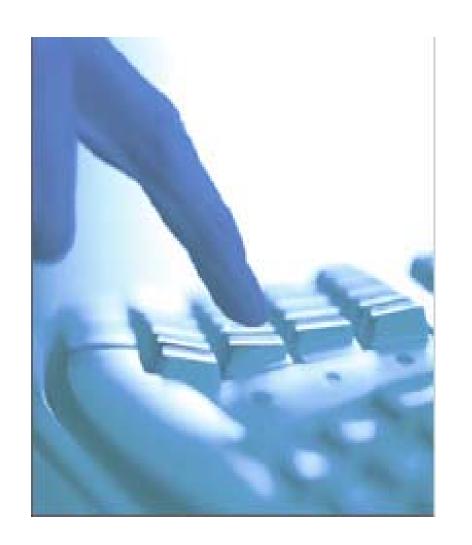
# **Major Changes in the Draft EVM NPD**

- Transfers responsibility for EVM from financial management to program/project management. CFO to NASA CHIEF ENGINEER
- Identifies EVM as a key Program/Project Management process.
- EVM is applicable to all NASA Programs and Projects.
- Specifies that contracted programs and projects requiring EVM will follow the seven management principles in ANSI/EIA Standard 748. Work performed by NASA/Government on programs/projects requiring EVM will, also, observe these management principles.
- Specifies CPR reporting for Projects with full criteria EVM reporting requirements and identifies the CPR reporting formats for those Projects falling within the criteria for Modified Cost Performance Reports.
- Specifies EVM implementation responsibilities for the NASA PMC Chairperson, Chief Engineer, Enterprises, Center Directors, Project Managers, the EVM Principle Center, and the EVM Focal Council and Focal Points.

# **EVM POLICY IMPLEMENTATION**



**FY03 Initiatives** to Support **Better Project** Management



# **Initiative #1:**

■ Integrated Baseline Review Process (IBR)

### **Objective:**

Provide a uniform Agency-wide approach for conducting IBR's on NASA Projects.

- Draft IBR process includes IBR planning, briefing, team training, and administrative procedures that will serve as a handbook has been developed.
- Proposed process has been successfully utilized on three MSFC projects. Lessons learned incorporated. Process will be applied to nearterm IBRs (pilot test).
- Incorporate any resulting changes/improvements and coordinate with the EVMFPC for review and comment.
- Prepare final version for Agency-wide implementation.

# **Initiative #2:**

# **■ EVM Implementation Assessment Model**

### **Objective:**

Provide a formal assessment process for determining the quality of EVM implementation on NASA programs and projects.

- Initial draft developed and initial coordination in process.
- Revise and update draft.
- Pilot test of assessment process planned with selected projects. June/August timeframe.
- Incorporate changes/recommendations resulting from pilot testing.
- Coordinate assessment model EVMFPC review and comment.
- Prepare final version for Agency-wide implementation.

# **Initiative #3:**

Implement data analysis processes and tools

### **Objective:**

To provide projects with a tool to perform better EVM data analysis and be able to quickly identify cost and schedule drivers as well as provide an independent EAC.

- Current MSFC Users: Space Launch Initiative (SLI); Next Generation Launch Technology (NGLT); ISS Habitat Holding Rack; and the Space Shuttle Program (SSME, ET, RSRM).
- Planning pilot tests for NASA Hqs, Code M, and Code Y.
- Training planned for NASA Hqs, KSC, and LaRC.

# **Initiative #4:**

■ Developed IT Infrastructure to support EVM activities

### **Objective:**

■ To provide a centralized database that will support the Agency-wide implementation of winsight and other EVM initiatives.

- IT configuration developed and initial testing complete.
- IT Security Plan and documentation has been approved.
- Migration of MSFC's production wlnsight databases ongoing.
- Parallel testing planned on the NISSU.
- Will be capable of supporting the Agency by the end of FY03.

# **Initiative # 5:**

■ In-house Earned Value System (EVS) development

# **Objective:**

To provide smaller, in-house projects with a basic management tool for measuring and managing project performance.

- Pre-development study & associated tasks. (Complete Dec. '02)
- Phase 1 Develop "user-friendly" data entry worksheet. (Complete Feb. '03)
- Phase 2 Develop Schedule interface & reports. (Complete Apr. '03)
- Phase 3 Develop IFM & wInsight interfaces, and automation improvements. (Planned Finish Jul. '03)
- Pilot Tests (MSFC) Conduct 2 project pilots. (Planned Start May '03; Planned Finish – Fall '03)

# **Initiative #6:**

Schedule Health Assessment process implementation

# **Objective:**

To provide a quantitative method for determining a schedule's credibility and usability for managing a project.

- Process defined and initial format established. (Complete Fall '01)
- Implementation at MSFC. (On-going; approximately 90 to 100 schedule assessments completed during last 18 months.)

### **Initiative #7:**

"Scheduling Best Practices Guide" development

# **Objective:**

To enhance the value and consistency of the scheduling discipline and products for project management within the agency.

- Schedule's Working Group (SWG) develop draft document.
   (Complete Feb. '03)
- Review & update document for Preliminary issuance and review.
   (Working, Planned Finish Jun. '03)
- Review & update for MSFC Final issue. (Planned Finish Aug. '03)
- Prepare final version for Agency-wide implementation.

# Where do we go from here .....



# **EVM Implementation Plans**

- Senior Executive level support to champion EVM has been identified!
- Finalize our new EVM NPD & NPG.
- Incorporate EVM into NPG 7120.
- Assign Enterprise key management representatives on the EVMFPC in support of EVM implementation and to provide a "top down" emphasis.
- Task the Focal Point Council to develop and Agency EVM Plan to support a robust implementation beginning in FY04.
  - Enterprise Coordination.
  - NASA Chief Engineer (Code AE) approval.