National Aeronautics and Space Administration

Tennessee Valley CPM Meeting

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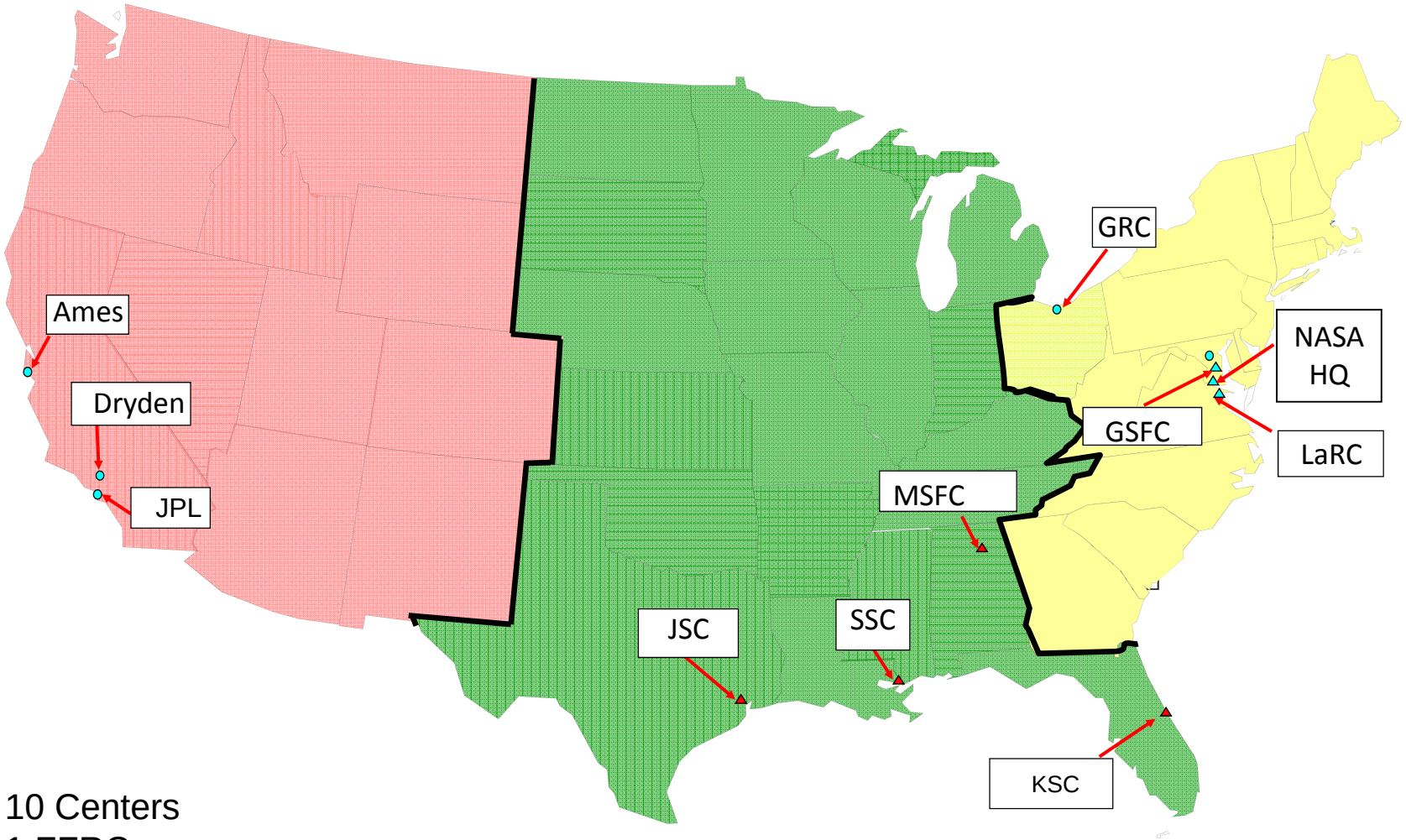
Outline

- NASA Locations
- Organizational Structure
- EVM Requirements
- Project Lifecycle and EVM
- Available Resources
- Civilian Agencies and Industry Working Group

NASA Centers



10 Centers
1 FFRC

National Aeronautics and Space Administration

Administrator
Deputy Administrator
Associate Administrator

- Chief of Staff
- Associate Deputy Administrator
- Associate Deputy Administrator for Strategy and Policy
- Assistant Associate Administrator

Advisory Groups NAC and ASAP

Inspector General

Chief Financial Officer*

Chief Information Officer*

Chief Scientist

Chief Technologist

Diversity and Equal Opportunity

Education

International and Interagency Relations

General Counsel

Legislative and Intergovernmental Affairs*

Communications*

Small Business Programs

Chief Engineer

Chief, Safety and Mission Assurance

Chief Health and Medical Officer

Mission Support Directorate

- Human Capital Management
- Strategic Infrastructure
- Headquarters Operations
- NASA Shared Services Center
- Internal Controls and Management Systems
- Procurement
- Protective Services
- NASA Management Office

Aeronautics Research Mission Directorate

Human Exploration and Operations Mission Directorate

Science Mission Directorate

Space Technology Mission Directorate

Ames Research Center

Dryden Flight Research Center

Glenn Research Center

Goddard Space Flight Center

Jet Propulsion Laboratory

Johnson Space Center

Kennedy Space Center

Langley Research Center

Marshall Space Flight Center

Stennis Space Center

Reporting Structure	
	Administrator
	Deputy Administrator
	Associate Administrator

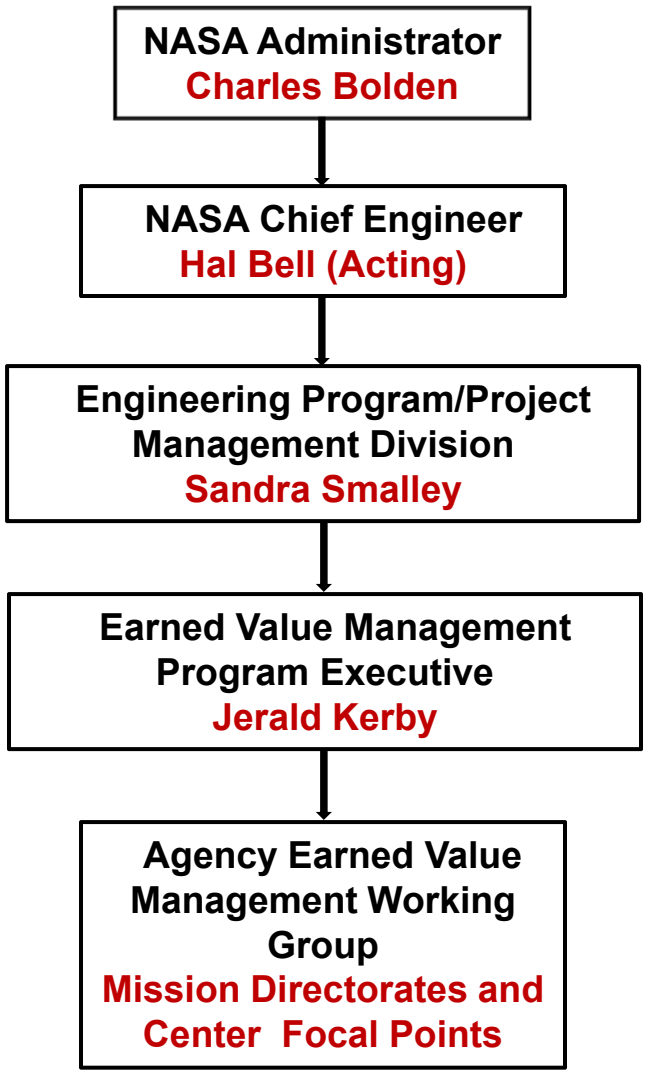
Note:

* Center functional office directors report to Agency functional AA. Deputy and below report to Center leadership.

February 2013

www.nasa.gov

NASA's EVM Leadership



NASA Center EVM Points of Contact

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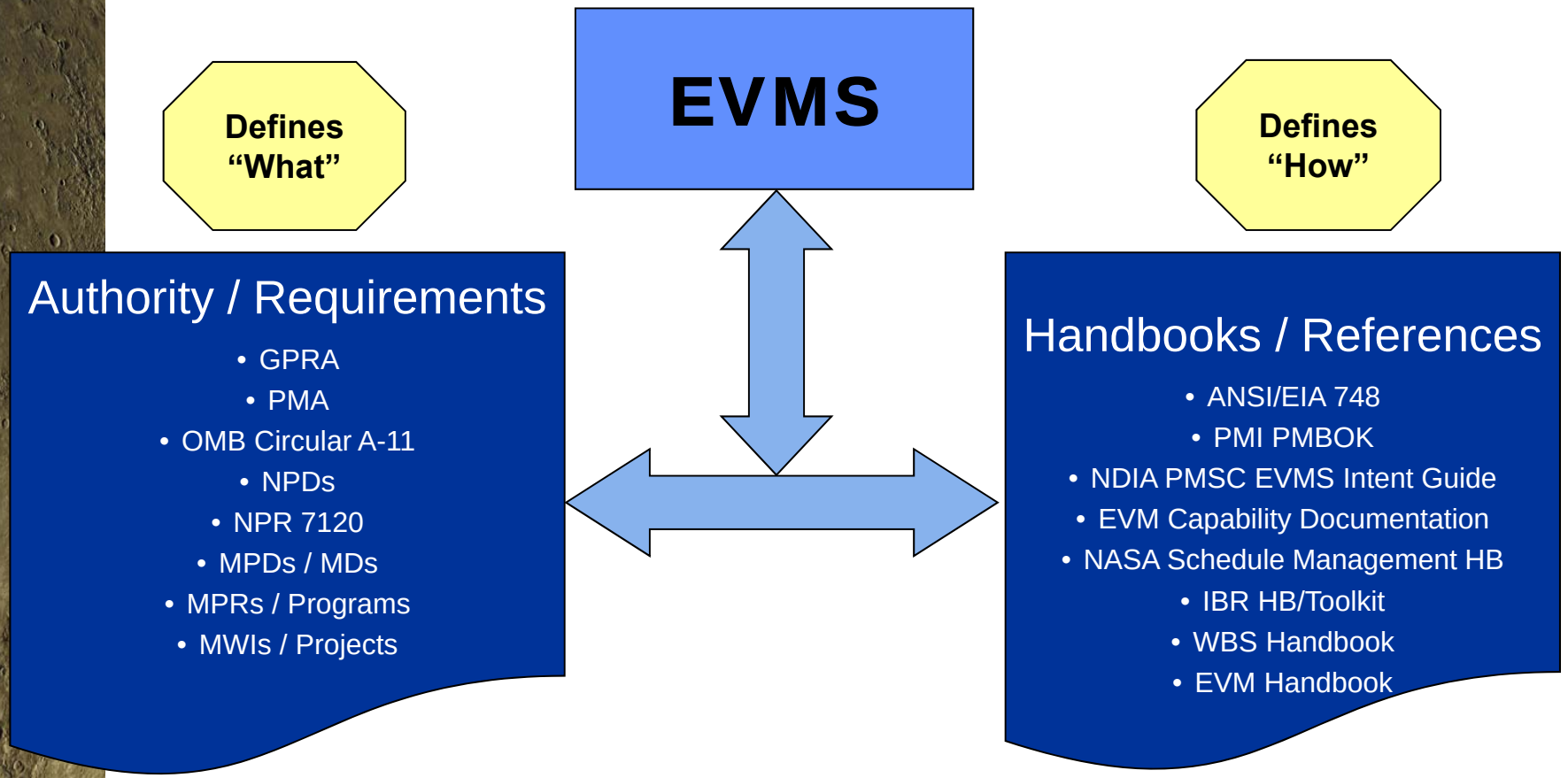
NASA EVM Requirements Hierarchy

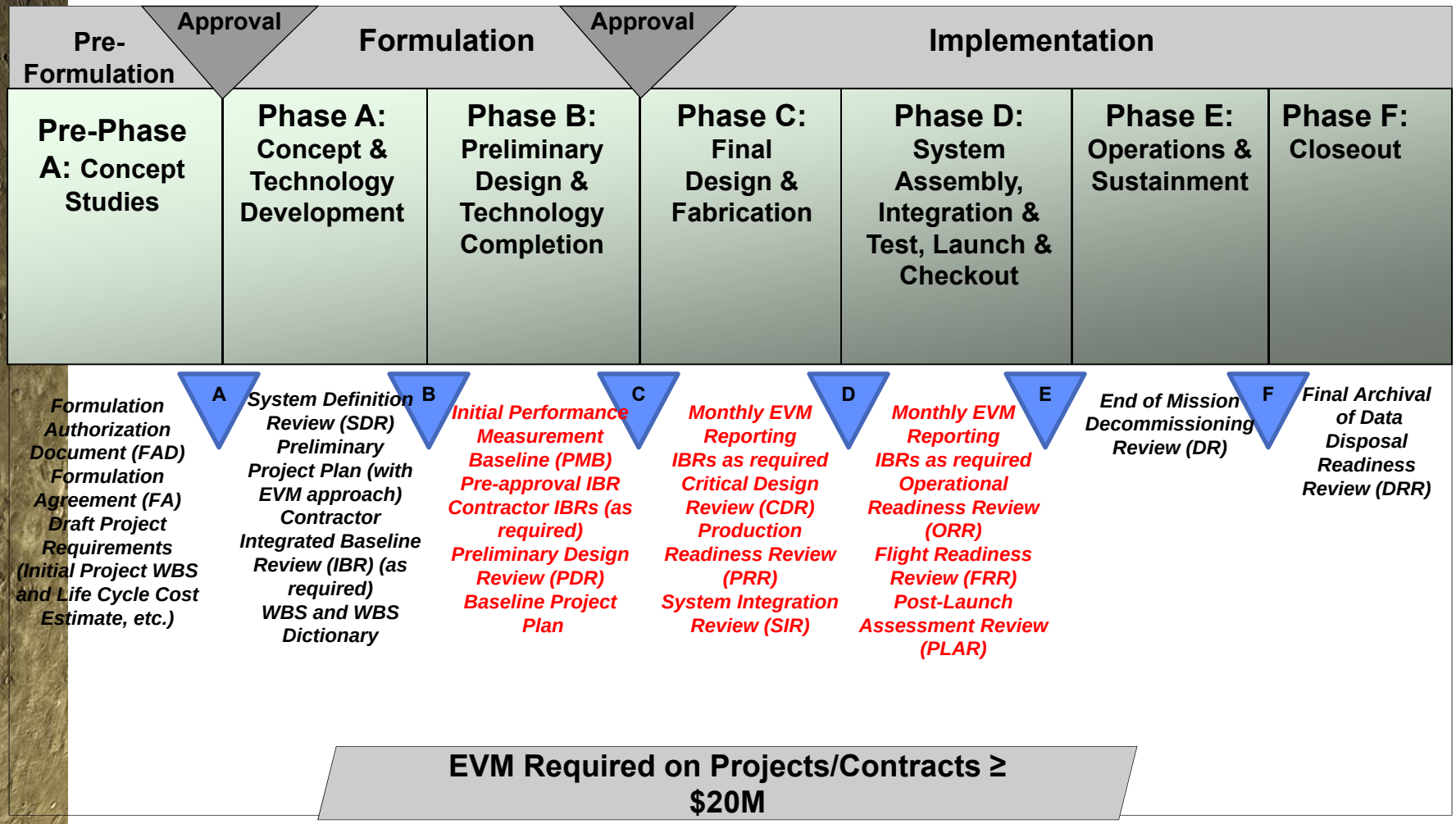


Forms the foundation for EVM and facilitates training, mentoring, tool development, assessment, and integration

EVM Requirements

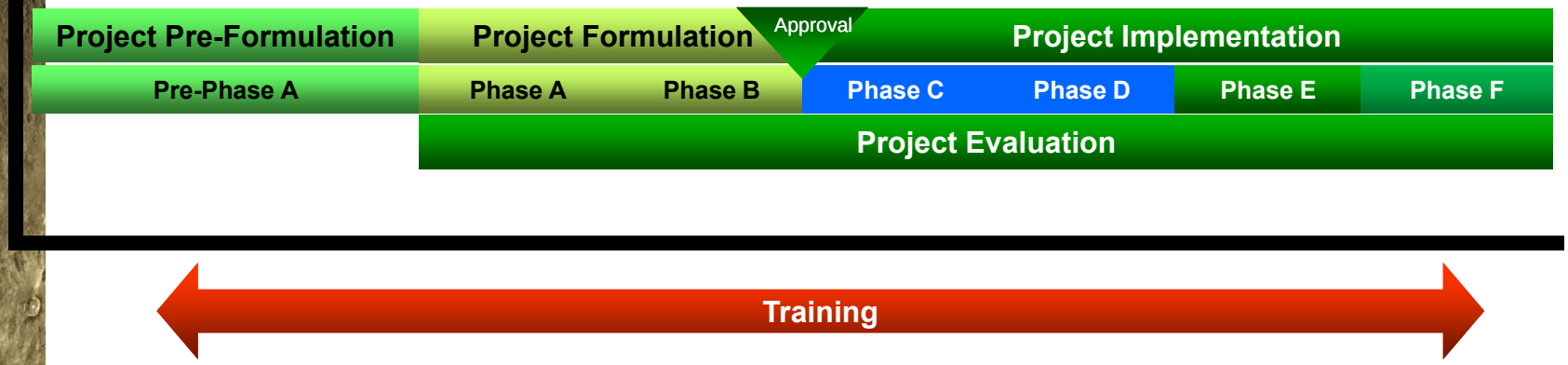
NASA Projects		
> $50M	**$20M to $50M**	**$0 to $20M**
32 Guidelines NASA System	32 Guidelines NASA System	Non-EVM Performance Mgmt
Flow-Down to Contractors		
> $50M	**$20M or More**	**Less than $20M**
32 Guidelines Validated Full EVM Terms and Conditions of DRDs	32 Guidelines Compliance Full EVM Terms and Conditions of DRDs	Non-EVM Performance Mgmt Performance Mgmt Terms and Conditions of DRD
All Supporting Contractors		

NASA Project Life Cycle



Project Life Cycle and EVM

- EVM on in-house development work is required in Phase C/D
- EVM on contracts is required from contract award
- Agency Baseline Commitment with Congress begins at Implementation Phase C



- Up-front Project Planning
- WBS Development
- Schedule Development & Evaluation
- Schedule Risk Assessment (SRA)
- Program Planning & Control (PP&C) Training Initiative
- Integrated Baseline Review (IBR) Preparation & Support
- EVM Data Analysis Processes/Practices

- EVM Tools Support
- Surveillance

Available Resources

POLICY , HANDBOOKS, GUIDANCE

- NPR 7120.5
- EVM Handbook
- Scheduling Handbook
- IBR Toolkit
- WBS Handbook
- Control Account Manager (CAM) Guide (draft)
- Standardized WBS (7120.5)
- EVM Capability Products
  - Process/Storyboard
  - System Description
  - DRDs

MISSION

PROGRAM / PROJECT

REQUEST

Mission Directorate
& Center
EVM Focal Point

PRODUCTS & SERVICES

- Center EVM Implementation Plans and Support
- Support for Agency and Centers
- Training
- RFP Development
- SEB EVM Evaluation
- IBR Support
- Data Analysis/Tools
- Surveillance
- In-house EVM Support

RESOURCES, SYSTEMS, TOOLS

- Automated Tools
  - wInsight/Cobra
- Access to Training Materials and
  - online EVM/Scheduling/CAM/IBR training available through SATERN
- Websites
  - evm.nasa.gov
  - Internal material/Knowledge Now
  - nen.nasa.gov
- EVM Working Group Meetings and Peer Support

EVM Products

- ✓ EVM process flow diagrams (Storyboard)
- ✓ System Description (Detailed Process)
- ✓ Narratives (Summary Process)
- ✓ Project-Control Account Manager's (P-CAM) Reference Guide
  - Provides a quick reference for Technical Managers
- ✓ EVM Handbook
  - Overall Agency and general EVM guidance
- ✓ Pilots results
  - Lessons Learned/Issues/Workarounds/Recommendations
- ✓ EVM Acceptance/Surveillance Strategy
  - Acceptance Strategy
  - Surveillance Overview
- ✓ Software Acquisition Strategy
  - Hardware/Software access/acquisition
- ✓ Training Modules by Process Area
  - Modularized training for each process area

Latest documents are on the NSCKN website under Peer Review folder

NASA Website Updates – EVM Website http://evm.nasa.gov/

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Earned Value Management (EVM)

- OVERVIEW
+ TUTORIAL
+ REGULATIONS/REQUIREMENTS
+ EVM FOCAL POINTS
+ IMPLEMENTATION HANDBOOKS
+ EVM TRAINING INFORMATION
+ EVM REPORTS
+ LINKS TO OTHER EVM SITES
+ EVM GLOSSARY
+ EVM ACRONYMS

+ NASA Home > EVM

The mission of the NASA Earned Value Management (EVM) website is to provide a primary on-line reference point for EVM theory, application, and use as an integrated project management process within NASA.

OVERVIEW

What is EVM?

EVM is an integrated management control system for assessing, understanding and quantifying what a contractor or field activity is achieving with program dollars

- Integrates technical, cost, schedule, with risk management
- Allows objective assessment and quantification of current project performance
- Helps predict future performance based on trends.

EVM provides project management with objective, accurate and timely data for effective decision making

Policy References

OMB Circular A-11, Part 3; NPR 7120.5 Program/Project Management Processes and Requirements; Industry Guidelines, ANSI/EIA-748 Standard for EVM Systems

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Curator: MITS
NASA Official: Jerald Kerby
Last Updated: January 22, 2010
+ Contact NASA
+ SiteMap

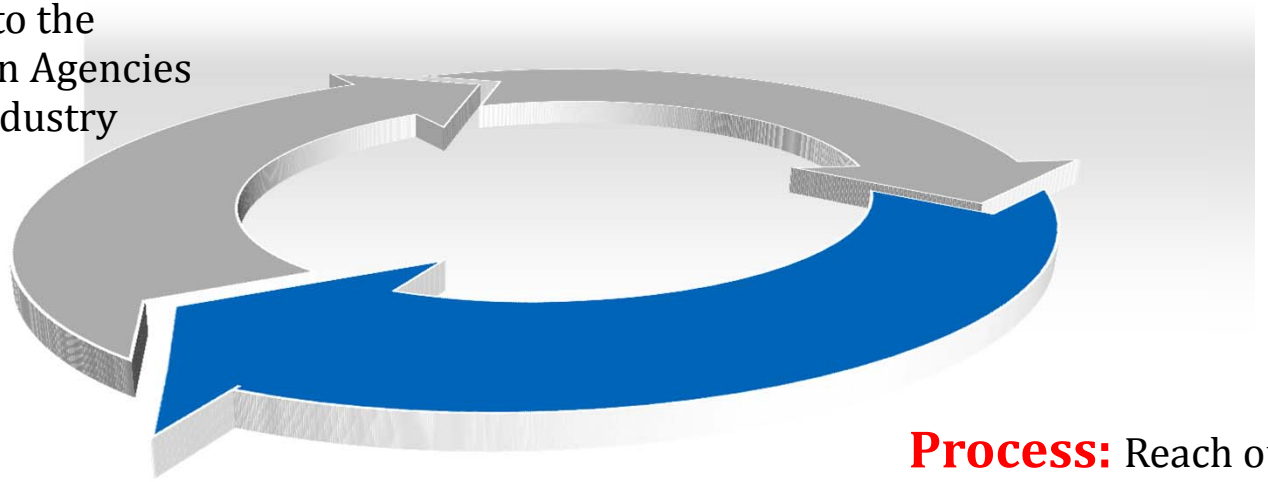
CAIWG

- Established a few years ago
- Joint Civilian/Industry Working Group
  - Co-chairs
    - Jerald Kerby
      - NASA (Government)
    - Tracie Thompson (ATK)
      - NDIA PMSC Chair (industry)
    - Rotates periodically
  - Current DC area Coordinator/Liaison
    - Jerry Jones, FAA

CAIWG Purpose, Goals, Process

Purpose:
Promote best practices, sharing and common efforts that demonstrate real (measurable) value to the Civilian Agencies and Industry

Goals: Select concrete proposals and ideas, implement them and measure value, and promote them widely



Process: Reach out widely to all segments of project management, acquisition, and best practice community, share information and socialize results

http://caiwg.mycpm.org/

CAIWG Participants

66 Active Members from:

- DHS
- DOE
- VA
- USAID
- University of Colorado - LASP
- NASA
- FAA
- NSF
- DoD
- OMB
- PMI
- CPM
- Applied Physics Lab (APL)
- GAO
- FAI
- NDIA
- USDA

http://caiwg.mycpm.org/

Established Sub-teams

- Priorities agreed to by the current active participates
- Benefits from these teams could reduce costs across the government (affordability)

Program/Project Management Across Civilian Agencies Using EVM Techniques	Reciprocity	<u>Scalability</u> Universities Not for Profits Small Business	<u>Website</u> Central Repository
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Questions?