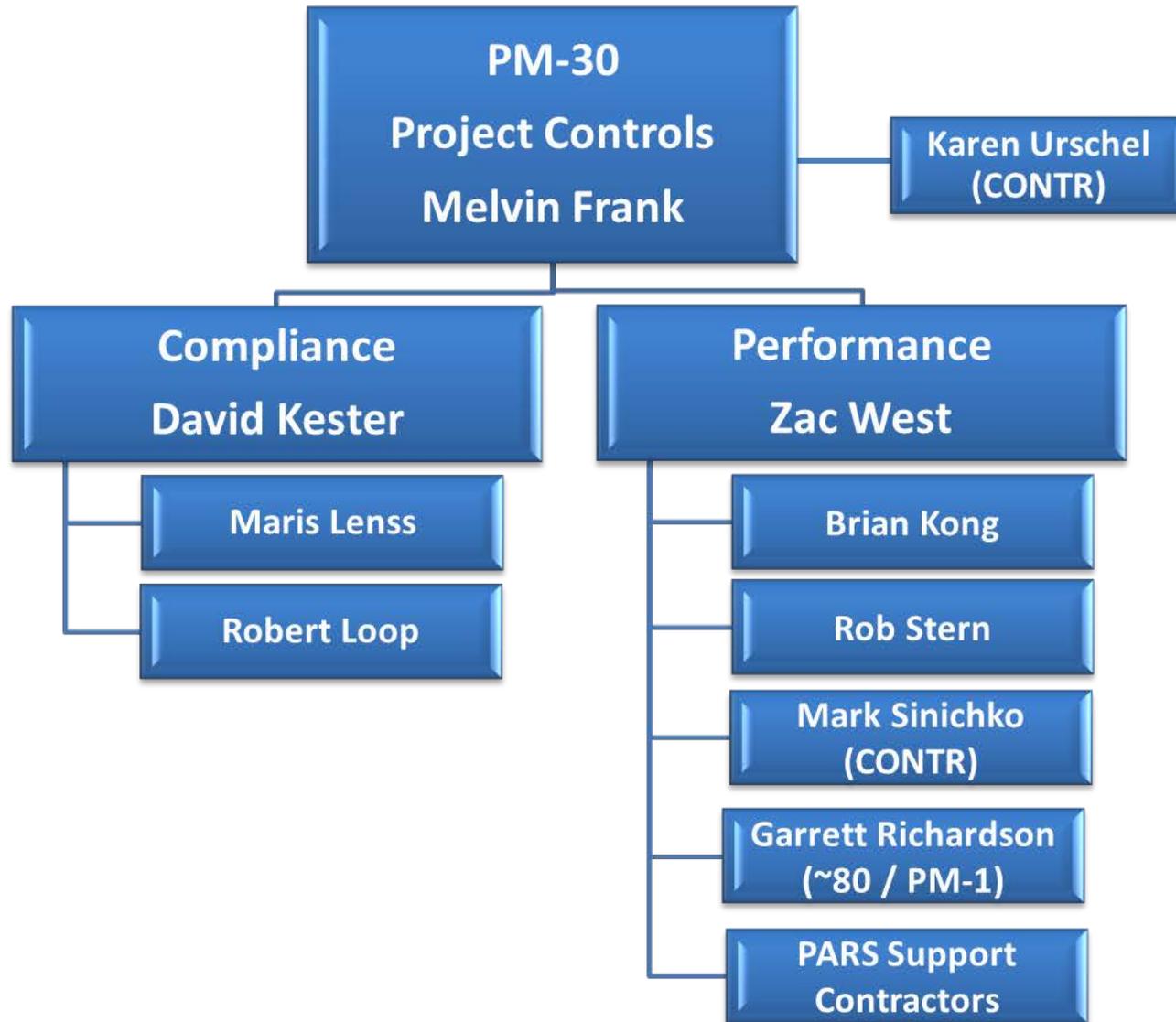


# **Achieving Consistency Isn't for the Weak of Heart**



**Melvin Frank**  
**Director, Project Controls (PM-30)**  
**Office of Project Management (PM)**  
**May 2018**

# PM-30 Organization





*“All great changes are preceded by chaos.” —Deepak Chopra*

- Just because most stakeholders agree we need consistency, it isn't easy to achieve. There will be outliers.
- Consistency requires commitment and fear of commitment impedes the process.
- Approach and communication is everything.  
–Who and How matters
- Nothing is possible without authority and management buy-in...interested in solutions, willing to commit.
- **The Goal: Cost effective/efficient use of EVMS**

# EVM Implementation – General Thoughts



- Projects are 2.5 times more successful and waste 13 times less money when proven project management practices are used.
  - PMI Pulse of the Profession 2016
- Earned Value Management (EVM) has proven itself to be one of the most effective performance measurement and feedback tools for managing projects.
  - PMI 2005





- **The need remains for a discussion on how the EVMS project controls process integrates with the project delivery process**
  - Per DOE O 413.3B Project Delivery requires the implementation of an integrated management system
  - For projects >\$100M the certified management system (EVMS) must integrate the key project components of scope, schedule, budget, resources, and risk
  - Contractors have the flexibility to develop and implement effective management systems tailored to meet their respective needs
  - Any differences in approach for EVMS implementation during the project's life-cycle should be addressed as part of the EVMS Description



- **Degree of Acceptance**

- The EVM concept is perceived to be useful across industries
- When implemented properly, the benefits outweigh the costs
- There is room for improvement
- People using EVMS need to better understand its purpose, capabilities, and limitations
- The expertise of those responsible for implementing EVMS vary considerably



“We are reminded by the work of Dr. W. E. Deming, the father of modern quality management, in which he demonstrated that the vast majority of quality problems are rooted in processes—ignored, flawed, or misunderstood by the worker, not in the workers themselves. Clear process definition, documentation, and accompanying roles and responsibilities are vital to assuring that EVMS works as intended and compliant with ANSI Standard 748.”

- Brodkorb, R. (2011). The truth about preparedness for any EVMS assessment by others. Paper presented at PMI® Global Congress 2011—North America, Dallas, TX.



- **Decision: Align with a Proven Model**
  - Contractor ownership / Customer input
    - NDIA IPMD Guides are a respected source in the EVM Community
- **Energy Facility Contractors Group (EFCOG) and DOE**
  - Move to a more consistent alignment with the referenced NDIA documents (Intent Guide, PASEG primarily)
  - Provide EFCOG and DOE comments to those updates
    - Reflect unique approach or consideration relevant to DOE business
      - Construction of complex facilities, remediation (de-construction), life extension projects
      - Not to reinvent but should there be only one comprehensive guide or expand to complementary guides

# Energy Facility Contractors Group (EFCOG)

## Project Delivery/Project Controls EVMS Subgroup



Slide 9

← → ↻ 🏠 ⓘ efcog.org/project-delivery/project-controls-subgroup/earned-value-management-task-team/ ☆ 📌 ⚙️

★ Bookmarks 🗄️ Citrix Access Gateway 🖨️ PARSIIe Login 🌐 Earned Value Manag📄 🇯🇵 Yahoo! 🌐 Google Translate 📧 Outlook Web App 🎁 A Gift From Us 💎 Meaningful Jewelry a 🗨️ »



- HOME
- ORGANIZATION ▾
- WORKING GROUPS ▾
- BEST PRACTICES
- JOIN EFCOG
- UPCOMING EVENTS
- LIBRARY

### Events

- House Nuclear Cleanup Caucus Event  
04/11/2018  
Washington DC
- QA & ISM Working Group Meeting  
04/23/2018 - 04/26/2018
- Material Control & Accountability Subgroup Meeting  
04/24/2018 - 04/26/2018
- Engineering Practices Subgroup Meeting  
05/01/2018 - 05/02/2018  
Washington, D.C.
- Project Delivery Working Group Meeting  
05/01/2018 - 05/03/2018  
North Las Vegas

## Earned Value Management Task Team

### Leadership

- [Amy D. Basche](#)
- [Rick M Millikin](#)
- [Craig T Hewitt](#)

### EVM SME POC List



### Upcoming Events

No Events

# Earned Value Management 'Fire Suppression' System



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Why Send A Fire Engine To Do A Smoke Alarm's Job?... It Costs A Whole Lot Less To Have A Smoke Alarm At Every House Than Having A Fire Engine... Smoke Alarms *Prevent* Fires, Fire Engines *Respond* To Fires... Use of EVMS Tests Saves Projects Through Early Detection.

# There is GENIUS in EVMS

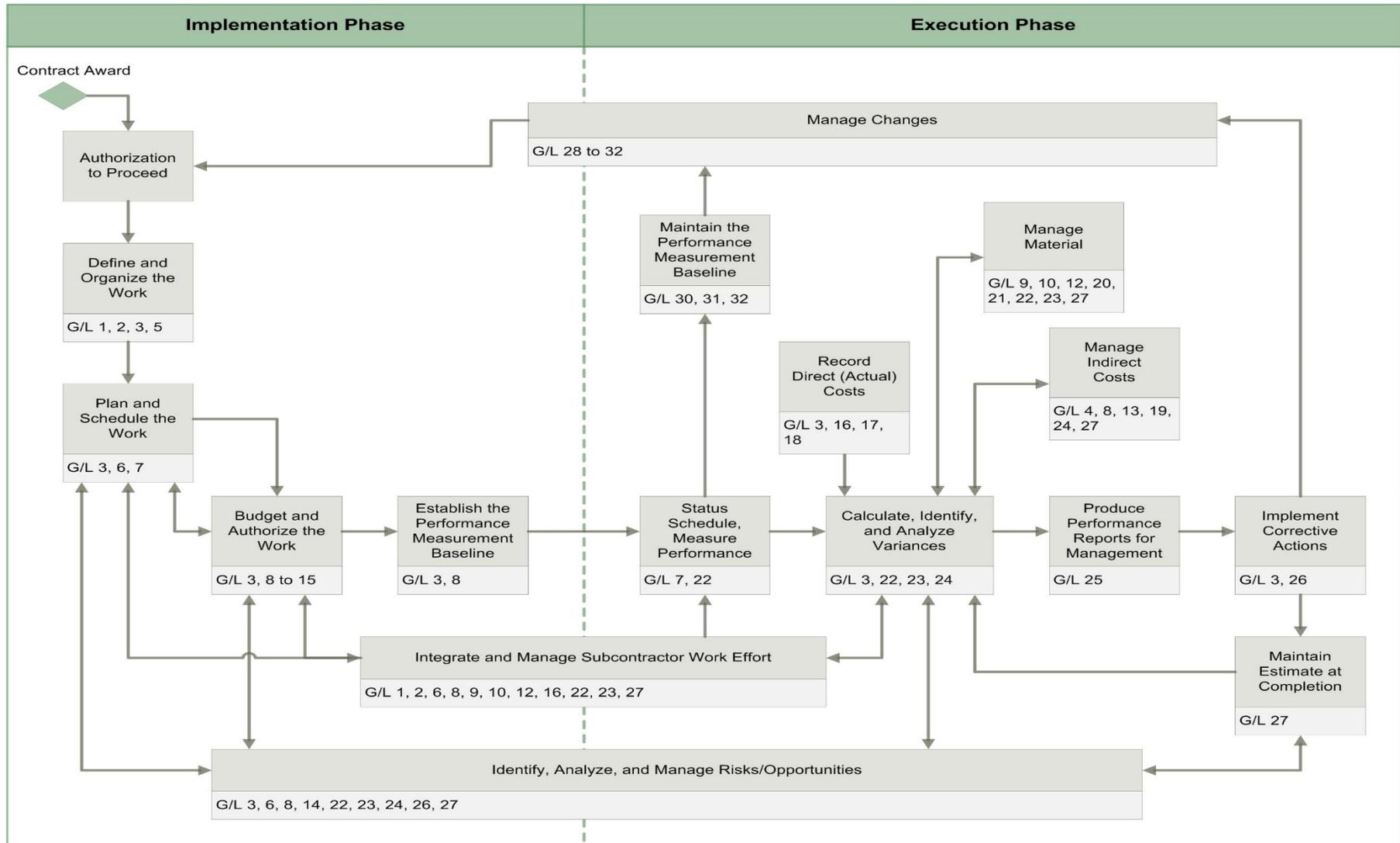
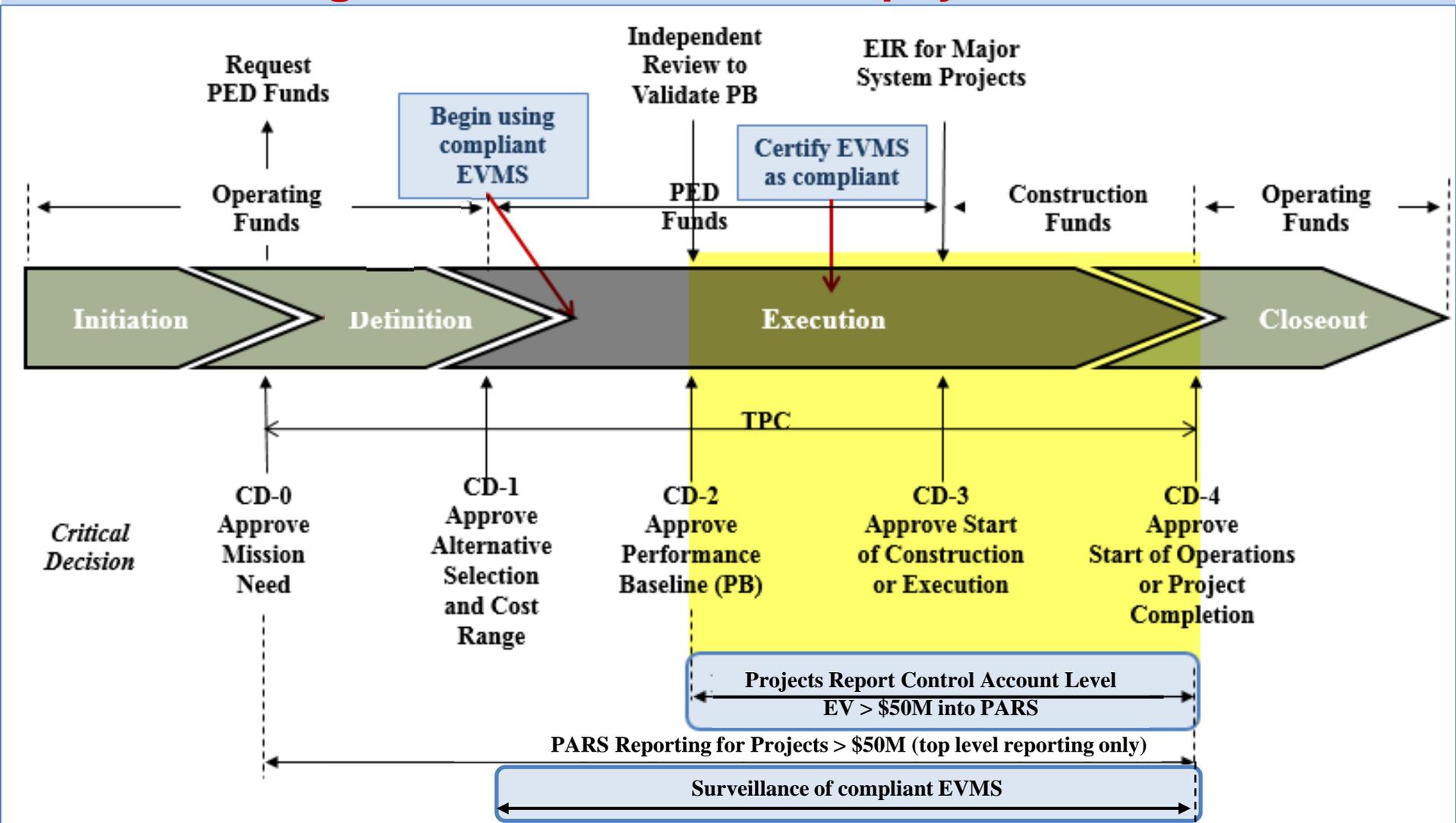


Figure 2 image from the NDIA IPMD EVMS Guideline Scalability Guide, Revision 1, November 2016

# Integrated EVM / PM Acquisition Lifecycle



## EVM is Integral to DOE's PM Philosophy from CD-0 to CD-4



Typical DOE Acquisition Management System for Line Item Capital Asset Projects

# EVM Implementation – Cross Reference Checklist



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- **EVMS compliance preparedness includes development of a cross-reference matrix mapping the sections of the EVMS Description to the 32 EIA-748 Guidelines**
  - Greatly assists the compliance process and serves to assure that all relevant EIA-748 requirements are addressed through documented processes and artifacts





- **Extractor Update**

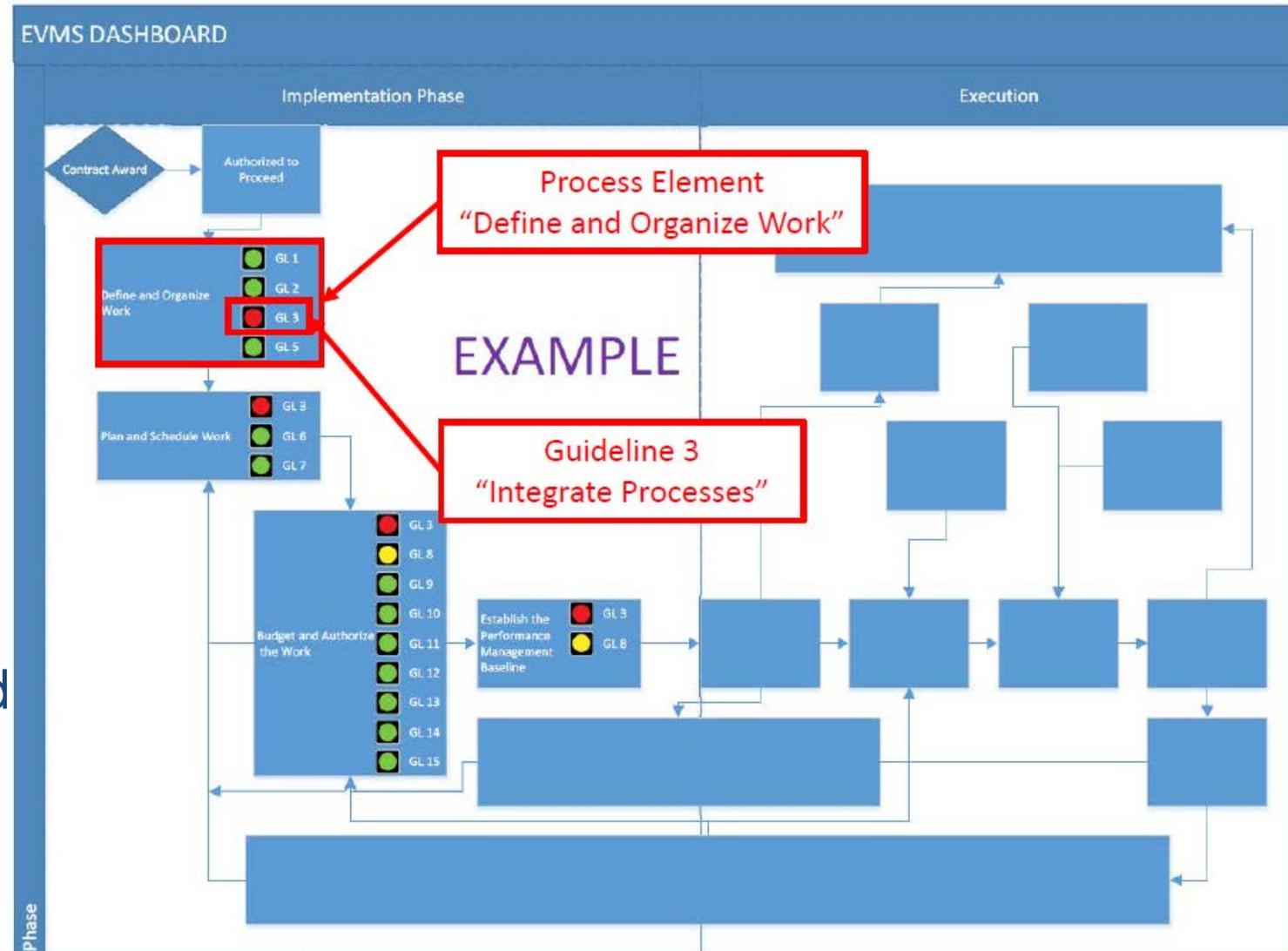
- Technology Update : From Access 2003 to currently supported software
- Intuitive Navigation : Drop downs to simplify process
- Agile Development
- User can configure to extract and report ...
  - Cost data to control account level consistent with current extractor, or
  - Detailed cost data to support project control analytics Project Controls Analytics

- **Provides additional analytics for project performance and EVMS compliance**

# Project Controls –Top Level Dashboard (Early Conceptual)



- Top level dashboard aligned with NDIA EVMS EIA-748-C Intent Guide
- 32 guidelines organized into process elements aligned with implementation and execution phases of a project



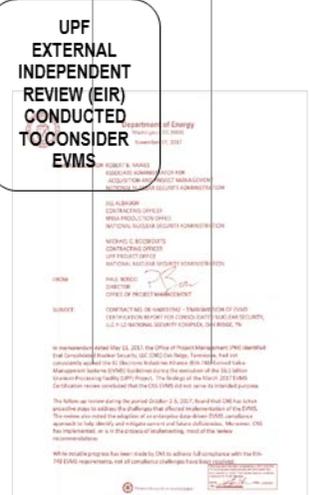
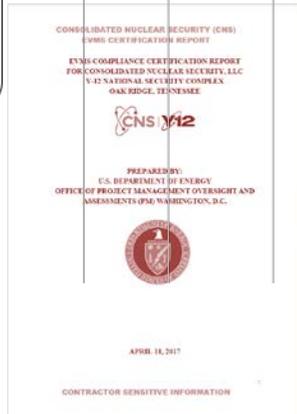
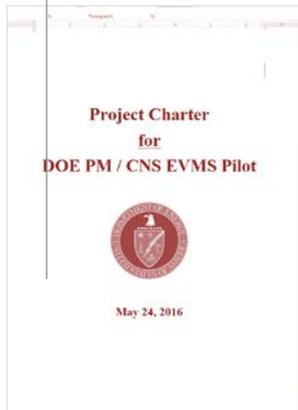
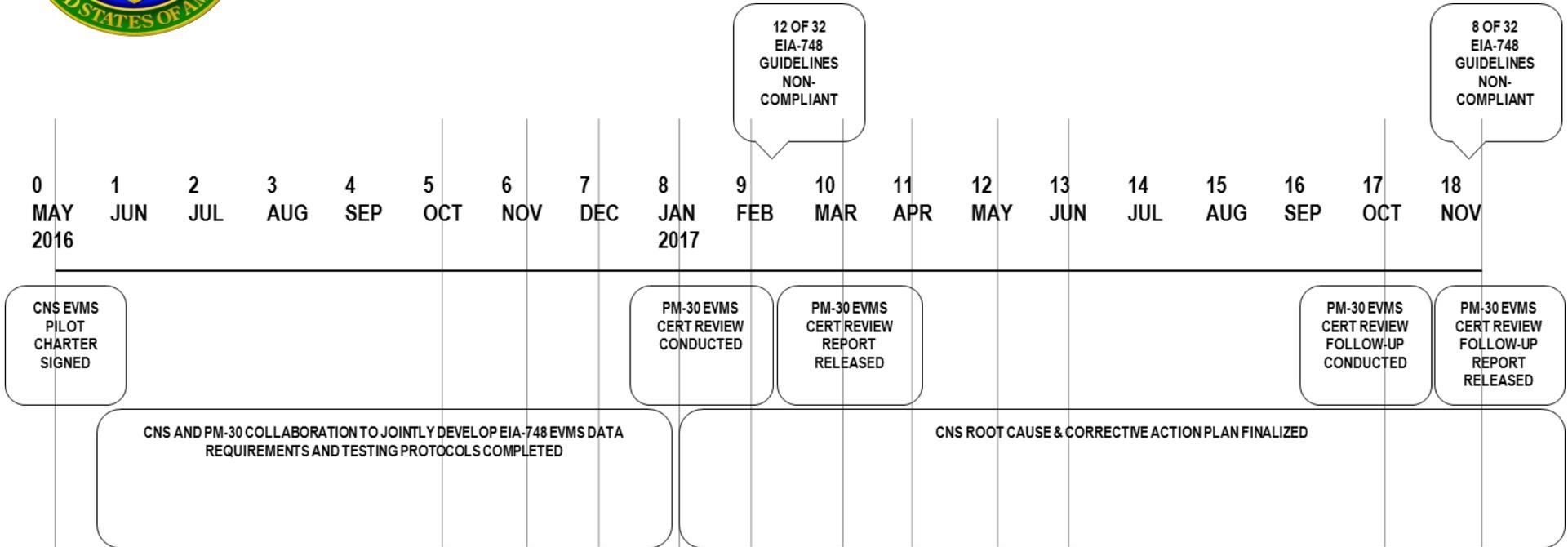


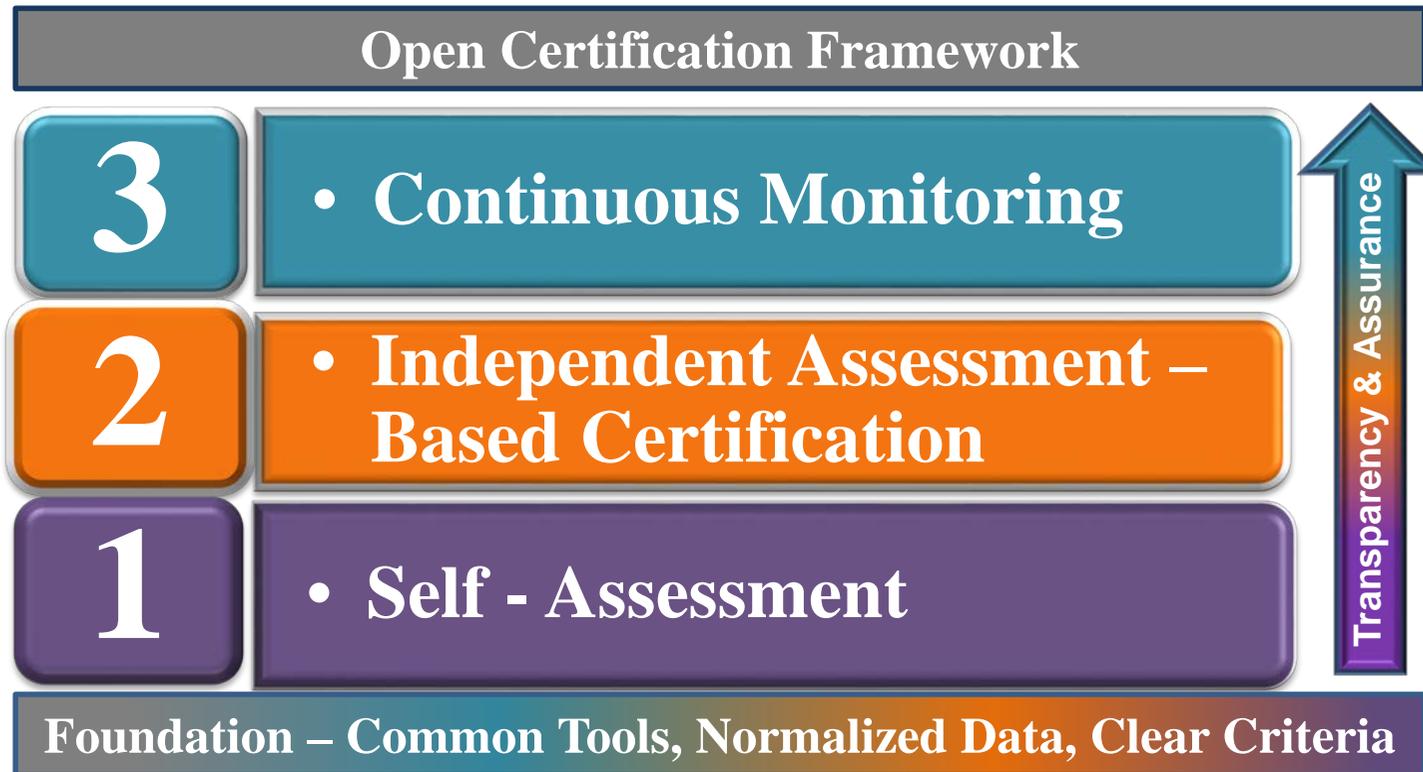
- Completing the Certification Process for CNS
- Focused approach using a data driven, automated analysis approach
- Entering in to a Self-Governance model





# CNS EVMS CERTIFICATION TIMELINE





- **Level One (Self-Assessment):** Requires the release and publication of due diligent self-assessment, against EVMS guidelines.
- **Level Two (Attestation):** Requires the release data and publication of available results of an assessment carried out by an independent third party based on EVMS guidelines.
- **Level Three (Ongoing Monitoring Certification):** Requires the release and publication of results related to EVMS guidelines.
- **The increase in Transparency and Assurance is based from the foundation of having common tools, evaluating normalized data, against a clear criteria.**

# Self-Governance Key Characteristics and Features



- **EVMS Self-Governance**
  - Between Contractor and DOE
- **Contractor Commitment:**
  - Leadership engagement which via routine and transparent oversight, progress assessment, and open dialogue, ***demands continuous improvement, and defines and enforces project management excellence***
  - A chartered authority structure (e.g., Governance Board) with cross-organizational engagement (e.g., financial office, procurement, quality assurance, etc.) to ***establish effective processes which are repeatable and enduring, implement corrective and improvement actions***, and report to and interact with institutional leadership

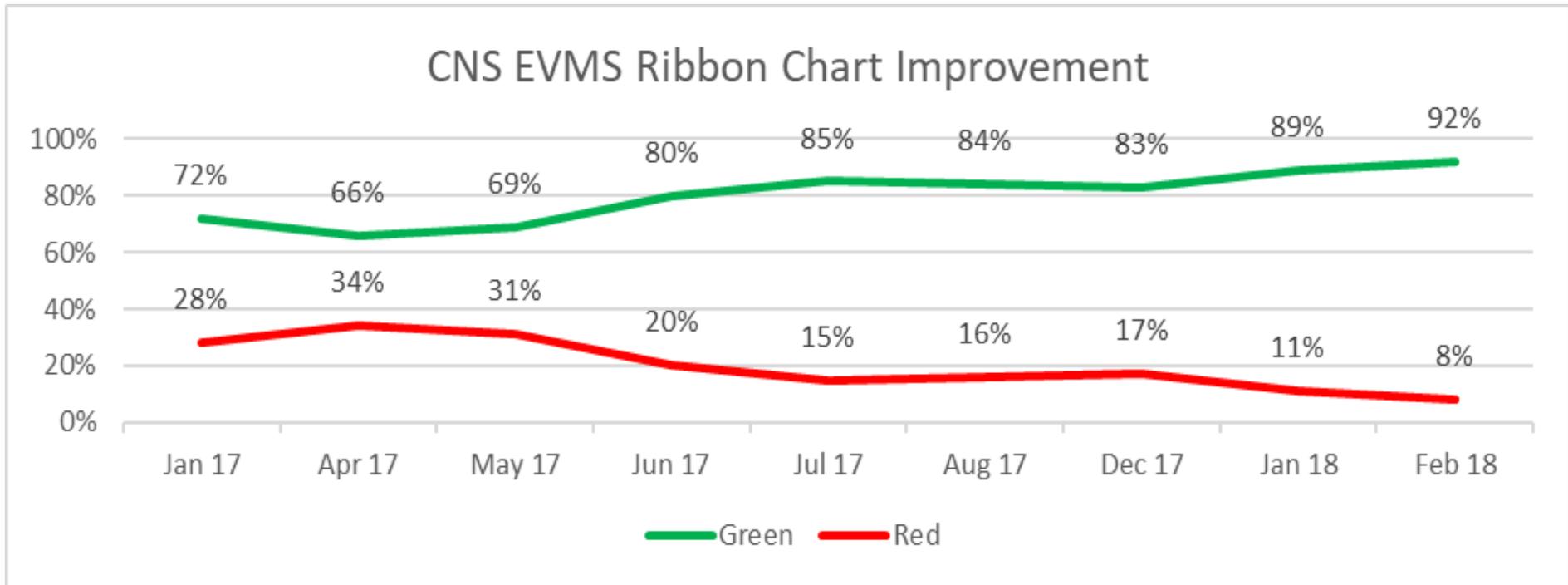
# Self-Governance Key Characteristics and Features – Contractor Commitment



Slide 21

- A methodology to:
  - Routinely ***monitor, assess and report system health and corrective actions*** via dashboards and metrics
  - Clearly defined and ***independently positioned Program Surveillance Officer*** that has a clear line to senior management
- A learning organization capable of:
  - Maintaining and ***improving workforce skill*** via proven techniques such as peer-to-peer mentoring
  - Prioritizing and executing ***process improvements***
  - Report improvement progress*** to Governance Board
- Above all and incorporated throughout should be ***transparency and an abject openness to critical feedback.***

# Effective Self Governance Results



**Data shows performance improvements over time as a result of a formal Self-Governance program.**



- Future EIA-748e EVMS Standard Update
- NDIA Intent Guide Rewrite
  - Opportunity to influence the application of EIA-748 EVMS compliance towards the uniqueness of design and construction efforts
- PM-1 EVMS Certification is contractor and site specific for capital asset projects equal or greater than \$100M
  - All capital asset projects greater than \$50M require EVMS Reporting
- PM-1 Certified EVMS Description Revision Approvals
- Next Round of RSAV Anticipated in Summer 2018
- Development of the Planning and Scheduling Amplification Guide
- Work towards automating the EVMS Compliance process continues for those that want to participate
  - What's the carrot? Self-governance – reduced oversight

# Questions? Comments?



Slide 24

## **PM** Office of **Project Management**

