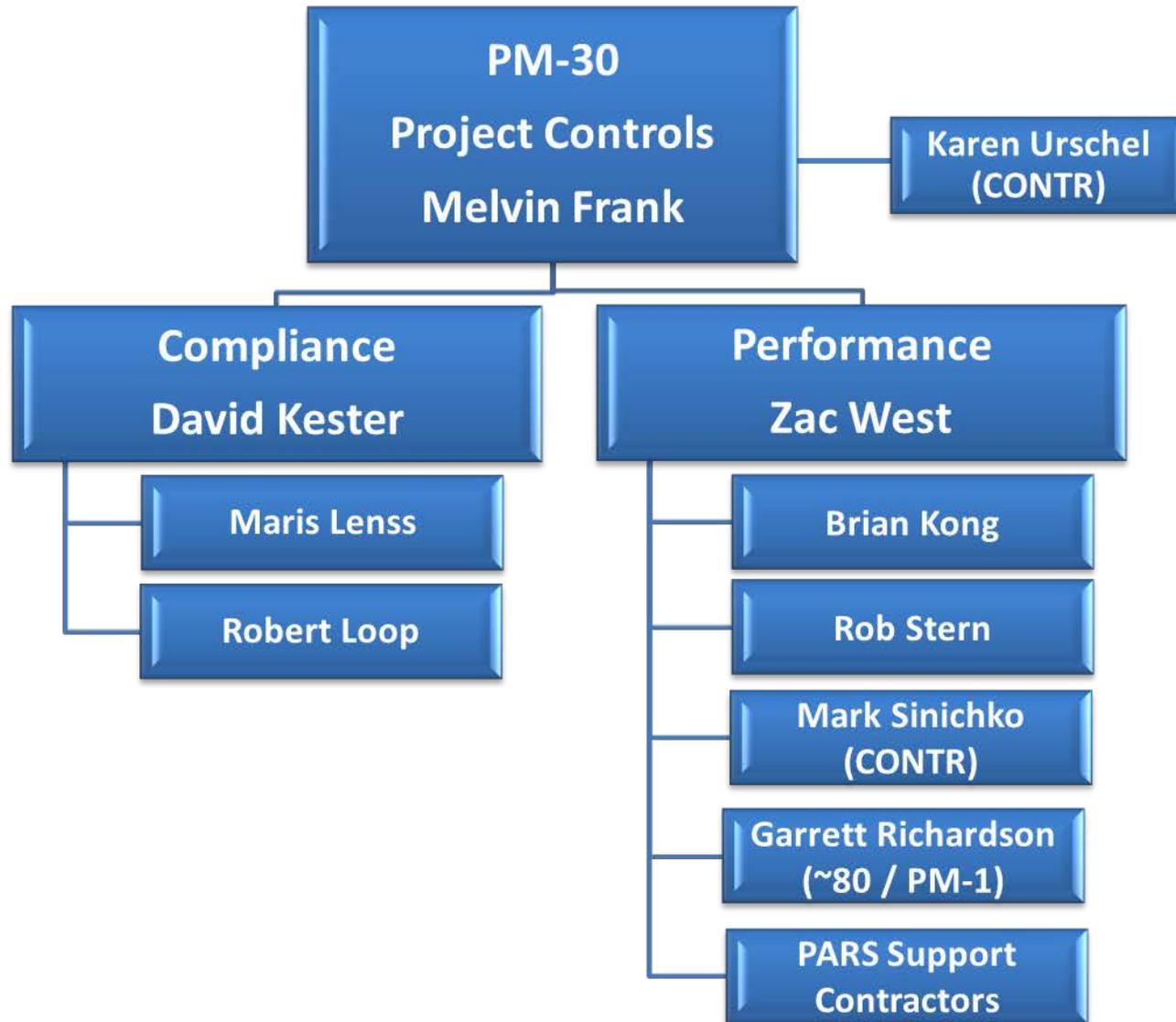


Achieving Consistency Isn't for the Weak of Heart



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



Slide 10



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

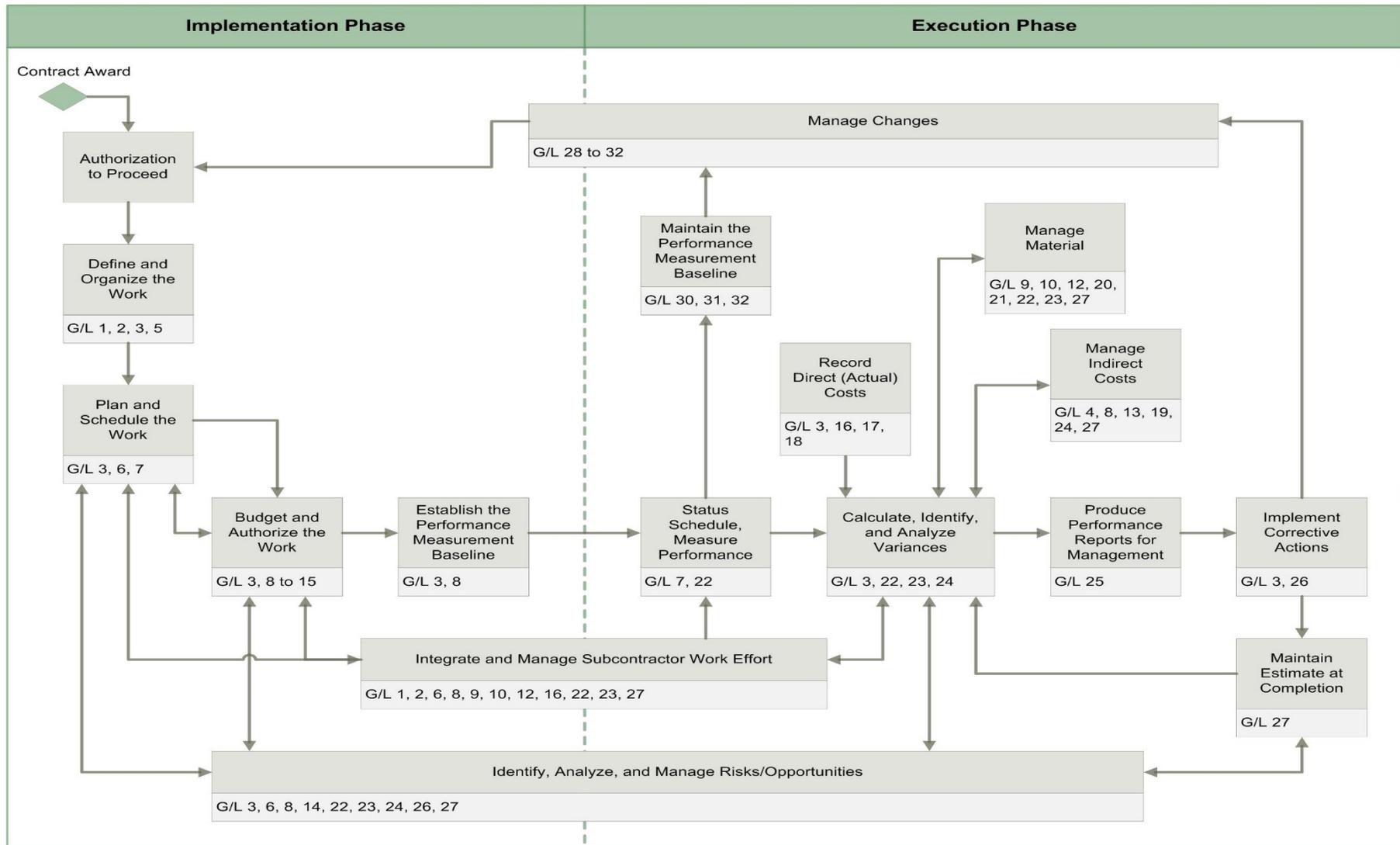
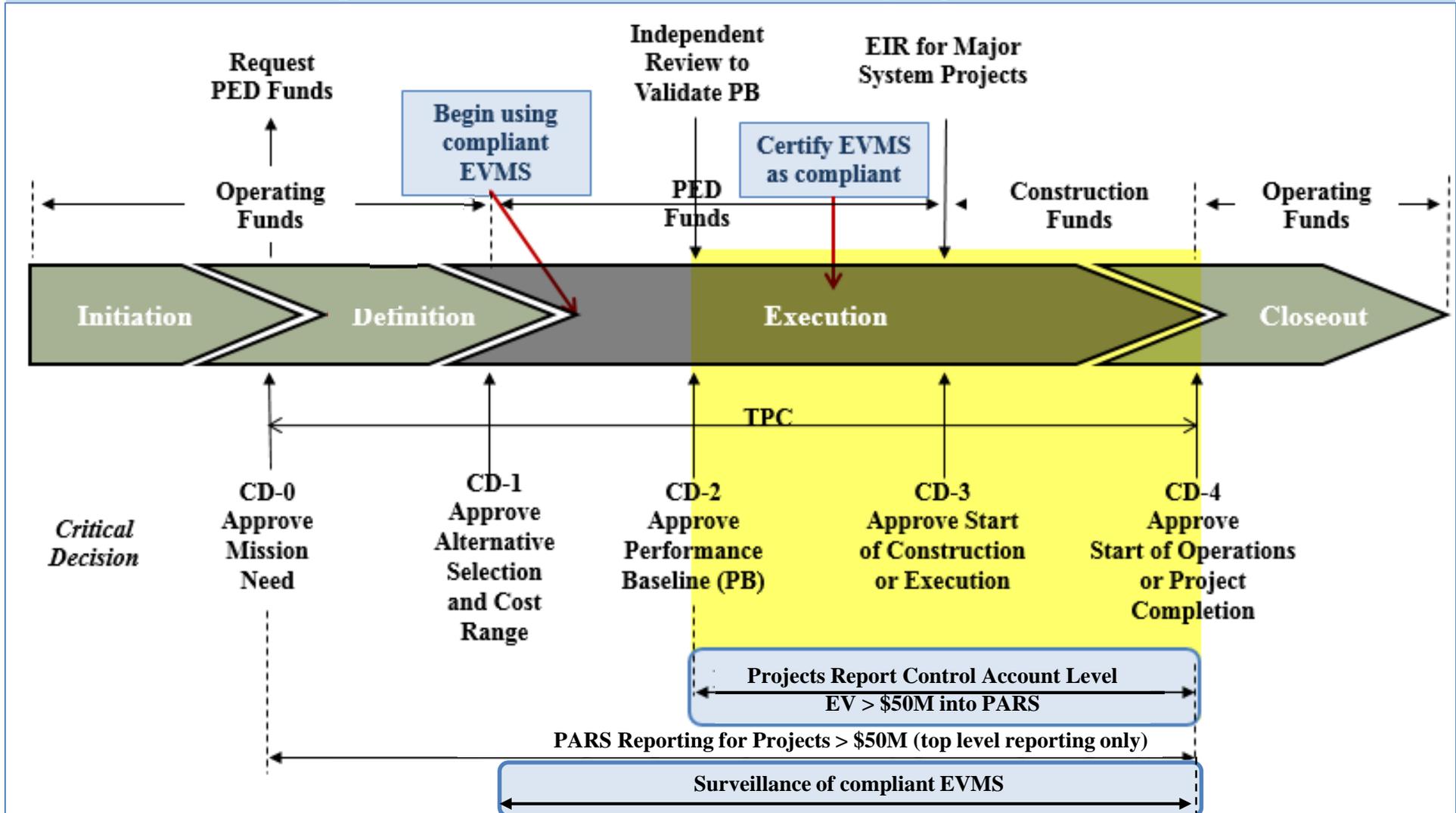


Figure 2 image from the NDIA IPMD EVMS Guideline Scalability Guide, Revision 1, November 2016

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



Slide 13

- **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

EVM Implementation – Cross Reference Checklist



National Defense Industrial Association
Integrated Program Management Division

Earned Value Management Systems EIA-748-C Intent Guide Appendix Compliance Map Template

April 29 2014*

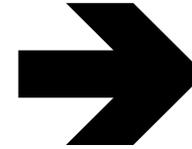
National Defense Industrial Association (NDIA)
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www.ndia.org

* See the Intent Guide Change History Log for minor updates made on January 30, 2015
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NDIA Intent
Characteristics
and Attributes



EIA EVMS CROSS REFERENCE CHECKLIST

GUIDELINE and QUESTIONS	INTENT		SD REFERENCES
	YES	NO	
ORGANIZATION			
Define the authorized work elements for program. A work breakdown structure (WBS), tailored for effective inter-organizational project extended to the control account level as a minimum?			Sect. 2.2.2 WBS Development: 1st Paragraph, 2nd Paragraph, 3rd Paragraph, 4th Paragraph, 5th Paragraph, 6th Paragraph, 7th Paragraph, 8th Paragraph, 9th Paragraph, 10th Paragraph, 11th Paragraph, 12th Paragraph, 13th Paragraph, 14th Paragraph, 15th Paragraph, 16th Paragraph, 17th Paragraph, 18th Paragraph, 19th Paragraph, 20th Paragraph, 21st Paragraph, 22nd Paragraph, 23rd Paragraph, 24th Paragraph, 25th Paragraph, 26th Paragraph, 27th Paragraph, 28th Paragraph, 29th Paragraph, 30th Paragraph, 31st Paragraph, 32nd Paragraph, 33rd Paragraph, 34th Paragraph, 35th Paragraph, 36th Paragraph, 37th Paragraph, 38th Paragraph, 39th Paragraph, 40th Paragraph, 41st Paragraph, 42nd Paragraph, 43rd Paragraph, 44th Paragraph, 45th Paragraph, 46th Paragraph, 47th Paragraph, 48th Paragraph, 49th Paragraph, 50th Paragraph, 51st Paragraph, 52nd Paragraph, 53rd Paragraph, 54th Paragraph, 55th Paragraph, 56th Paragraph, 57th Paragraph, 58th Paragraph, 59th Paragraph, 60th Paragraph, 61st Paragraph, 62nd Paragraph, 63rd Paragraph, 64th Paragraph, 65th Paragraph, 66th Paragraph, 67th Paragraph, 68th Paragraph, 69th Paragraph, 70th Paragraph, 71st Paragraph, 72nd Paragraph, 73rd Paragraph, 74th Paragraph, 75th Paragraph, 76th Paragraph, 77th Paragraph, 78th Paragraph, 79th Paragraph, 80th Paragraph, 81st Paragraph, 82nd Paragraph, 83rd Paragraph, 84th Paragraph, 85th Paragraph, 86th Paragraph, 87th Paragraph, 88th Paragraph, 89th Paragraph, 90th Paragraph, 91st Paragraph, 92nd Paragraph, 93rd Paragraph, 94th Paragraph, 95th Paragraph, 96th Paragraph, 97th Paragraph, 98th Paragraph, 99th Paragraph, 100th Paragraph
Is a single product-oriented WBS used for a given project extended to the control account level as a minimum?		X	Sect. 2.2.2 WBS Development: 1st Paragraph, 2nd Paragraph, 3rd Paragraph, 4th Paragraph, 5th Paragraph, 6th Paragraph, 7th Paragraph, 8th Paragraph, 9th Paragraph, 10th Paragraph, 11th Paragraph, 12th Paragraph, 13th Paragraph, 14th Paragraph, 15th Paragraph, 16th Paragraph, 17th Paragraph, 18th Paragraph, 19th Paragraph, 20th Paragraph, 21st Paragraph, 22nd Paragraph, 23rd Paragraph, 24th Paragraph, 25th Paragraph, 26th Paragraph, 27th Paragraph, 28th Paragraph, 29th Paragraph, 30th Paragraph, 31st Paragraph, 32nd Paragraph, 33rd Paragraph, 34th Paragraph, 35th Paragraph, 36th Paragraph, 37th Paragraph, 38th Paragraph, 39th Paragraph, 40th Paragraph, 41st Paragraph, 42nd Paragraph, 43rd Paragraph, 44th Paragraph, 45th Paragraph, 46th Paragraph, 47th Paragraph, 48th Paragraph, 49th Paragraph, 50th Paragraph, 51st Paragraph, 52nd Paragraph, 53rd Paragraph, 54th Paragraph, 55th Paragraph, 56th Paragraph, 57th Paragraph, 58th Paragraph, 59th Paragraph, 60th Paragraph, 61st Paragraph, 62nd Paragraph, 63rd Paragraph, 64th Paragraph, 65th Paragraph, 66th Paragraph, 67th Paragraph, 68th Paragraph, 69th Paragraph, 70th Paragraph, 71st Paragraph, 72nd Paragraph, 73rd Paragraph, 74th Paragraph, 75th Paragraph, 76th Paragraph, 77th Paragraph, 78th Paragraph, 79th Paragraph, 80th Paragraph, 81st Paragraph, 82nd Paragraph, 83rd Paragraph, 84th Paragraph, 85th Paragraph, 86th Paragraph, 87th Paragraph, 88th Paragraph, 89th Paragraph, 90th Paragraph, 91st Paragraph, 92nd Paragraph, 93rd Paragraph, 94th Paragraph, 95th Paragraph, 96th Paragraph, 97th Paragraph, 98th Paragraph, 99th Paragraph, 100th Paragraph
Does the WBS include all authorized project work and any revisions resulting from authorized changes and modifications?		X	Sect. 2.2.2 WBS Development: 2nd Paragraph, 3rd Paragraph, 4th Paragraph, 5th Paragraph, 6th Paragraph, 7th Paragraph, 8th Paragraph, 9th Paragraph, 10th Paragraph, 11th Paragraph, 12th Paragraph, 13th Paragraph, 14th Paragraph, 15th Paragraph, 16th Paragraph, 17th Paragraph, 18th Paragraph, 19th Paragraph, 20th Paragraph, 21st Paragraph, 22nd Paragraph, 23rd Paragraph, 24th Paragraph, 25th Paragraph, 26th Paragraph, 27th Paragraph, 28th Paragraph, 29th Paragraph, 30th Paragraph, 31st Paragraph, 32nd Paragraph, 33rd Paragraph, 34th Paragraph, 35th Paragraph, 36th Paragraph, 37th Paragraph, 38th Paragraph, 39th Paragraph, 40th Paragraph, 41st Paragraph, 42nd Paragraph, 43rd Paragraph, 44th Paragraph, 45th Paragraph, 46th Paragraph, 47th Paragraph, 48th Paragraph, 49th Paragraph, 50th Paragraph, 51st Paragraph, 52nd Paragraph, 53rd Paragraph, 54th Paragraph, 55th Paragraph, 56th Paragraph, 57th Paragraph, 58th Paragraph, 59th Paragraph, 60th Paragraph, 61st Paragraph, 62nd Paragraph, 63rd Paragraph, 64th Paragraph, 65th Paragraph, 66th Paragraph, 67th Paragraph, 68th Paragraph, 69th Paragraph, 70th Paragraph, 71st Paragraph, 72nd Paragraph, 73rd Paragraph, 74th Paragraph, 75th Paragraph, 76th Paragraph, 77th Paragraph, 78th Paragraph, 79th Paragraph, 80th Paragraph, 81st Paragraph, 82nd Paragraph, 83rd Paragraph, 84th Paragraph, 85th Paragraph, 86th Paragraph, 87th Paragraph, 88th Paragraph, 89th Paragraph, 90th Paragraph, 91st Paragraph, 92nd Paragraph, 93rd Paragraph, 94th Paragraph, 95th Paragraph, 96th Paragraph, 97th Paragraph, 98th Paragraph, 99th Paragraph, 100th Paragraph
Are the following items included in the WBS:			
1) All WBS elements specified for external reporting?		X	While section 5.5.2 states, "The IPMR is a performance information on projects required to reflect the output of the contractor's work."
2) WBS elements to be subcontracted, with identification of subcontractors?		X	While section 2.2.2, WBS Development: 2nd Paragraph, 3rd Paragraph, 4th Paragraph, 5th Paragraph, 6th Paragraph, 7th Paragraph, 8th Paragraph, 9th Paragraph, 10th Paragraph, 11th Paragraph, 12th Paragraph, 13th Paragraph, 14th Paragraph, 15th Paragraph, 16th Paragraph, 17th Paragraph, 18th Paragraph, 19th Paragraph, 20th Paragraph, 21st Paragraph, 22nd Paragraph, 23rd Paragraph, 24th Paragraph, 25th Paragraph, 26th Paragraph, 27th Paragraph, 28th Paragraph, 29th Paragraph, 30th Paragraph, 31st Paragraph, 32nd Paragraph, 33rd Paragraph, 34th Paragraph, 35th Paragraph, 36th Paragraph, 37th Paragraph, 38th Paragraph, 39th Paragraph, 40th Paragraph, 41st Paragraph, 42nd Paragraph, 43rd Paragraph, 44th Paragraph, 45th Paragraph, 46th Paragraph, 47th Paragraph, 48th Paragraph, 49th Paragraph, 50th Paragraph, 51st Paragraph, 52nd Paragraph, 53rd Paragraph, 54th Paragraph, 55th Paragraph, 56th Paragraph, 57th Paragraph, 58th Paragraph, 59th Paragraph, 60th Paragraph, 61st Paragraph, 62nd Paragraph, 63rd Paragraph, 64th Paragraph, 65th Paragraph, 66th Paragraph, 67th Paragraph, 68th Paragraph, 69th Paragraph, 70th Paragraph, 71st Paragraph, 72nd Paragraph, 73rd Paragraph, 74th Paragraph, 75th Paragraph, 76th Paragraph, 77th Paragraph, 78th Paragraph, 79th Paragraph, 80th Paragraph, 81st Paragraph, 82nd Paragraph, 83rd Paragraph, 84th Paragraph, 85th Paragraph, 86th Paragraph, 87th Paragraph, 88th Paragraph, 89th Paragraph, 90th Paragraph, 91st Paragraph, 92nd Paragraph, 93rd Paragraph, 94th Paragraph, 95th Paragraph, 96th Paragraph, 97th Paragraph, 98th Paragraph, 99th Paragraph, 100th Paragraph
Identify the program organizational structure including the major subcontractors responsible for accomplishing the program organizational elements in which work will be planned and controlled.			
Are all authorized tasks assigned to organizational elements?		X	Sect. 2.4.2 OBS Development: 1st Paragraph, 2nd Paragraph, 3rd Paragraph, 4th Paragraph, 5th Paragraph, 6th Paragraph, 7th Paragraph, 8th Paragraph, 9th Paragraph, 10th Paragraph, 11th Paragraph, 12th Paragraph, 13th Paragraph, 14th Paragraph, 15th Paragraph, 16th Paragraph, 17th Paragraph, 18th Paragraph, 19th Paragraph, 20th Paragraph, 21st Paragraph, 22nd Paragraph, 23rd Paragraph, 24th Paragraph, 25th Paragraph, 26th Paragraph, 27th Paragraph, 28th Paragraph, 29th Paragraph, 30th Paragraph, 31st Paragraph, 32nd Paragraph, 33rd Paragraph, 34th Paragraph, 35th Paragraph, 36th Paragraph, 37th Paragraph, 38th Paragraph, 39th Paragraph, 40th Paragraph, 41st Paragraph, 42nd Paragraph, 43rd Paragraph, 44th Paragraph, 45th Paragraph, 46th Paragraph, 47th Paragraph, 48th Paragraph, 49th Paragraph, 50th Paragraph, 51st Paragraph, 52nd Paragraph, 53rd Paragraph, 54th Paragraph, 55th Paragraph, 56th Paragraph, 57th Paragraph, 58th Paragraph, 59th Paragraph, 60th Paragraph, 61st Paragraph, 62nd Paragraph, 63rd Paragraph, 64th Paragraph, 65th Paragraph, 66th Paragraph, 67th Paragraph, 68th Paragraph, 69th Paragraph, 70th Paragraph, 71st Paragraph, 72nd Paragraph, 73rd Paragraph, 74th Paragraph, 75th Paragraph, 76th Paragraph, 77th Paragraph, 78th Paragraph, 79th Paragraph, 80th Paragraph, 81st Paragraph, 82nd Paragraph, 83rd Paragraph, 84th Paragraph, 85th Paragraph, 86th Paragraph, 87th Paragraph, 88th Paragraph, 89th Paragraph, 90th Paragraph, 91st Paragraph, 92nd Paragraph, 93rd Paragraph, 94th Paragraph, 95th Paragraph, 96th Paragraph, 97th Paragraph, 98th Paragraph, 99th Paragraph, 100th Paragraph
Are major subcontractor and/or inter-organizational			While section 2.4.2 OBS Development: 1st Paragraph, 2nd Paragraph, 3rd Paragraph, 4th Paragraph, 5th Paragraph, 6th Paragraph, 7th Paragraph, 8th Paragraph, 9th Paragraph, 10th Paragraph, 11th Paragraph, 12th Paragraph, 13th Paragraph, 14th Paragraph, 15th Paragraph, 16th Paragraph, 17th Paragraph, 18th Paragraph, 19th Paragraph, 20th Paragraph, 21st Paragraph, 22nd Paragraph, 23rd Paragraph, 24th Paragraph, 25th Paragraph, 26th Paragraph, 27th Paragraph, 28th Paragraph, 29th Paragraph, 30th Paragraph, 31st Paragraph, 32nd Paragraph, 33rd Paragraph, 34th Paragraph, 35th Paragraph, 36th Paragraph, 37th Paragraph, 38th Paragraph, 39th Paragraph, 40th Paragraph, 41st Paragraph, 42nd Paragraph, 43rd Paragraph, 44th Paragraph, 45th Paragraph, 46th Paragraph, 47th Paragraph, 48th Paragraph, 49th Paragraph, 50th Paragraph, 51st Paragraph, 52nd Paragraph, 53rd Paragraph, 54th Paragraph, 55th Paragraph, 56th Paragraph, 57th Paragraph, 58th Paragraph, 59th Paragraph, 60th Paragraph, 61st Paragraph, 62nd Paragraph, 63rd Paragraph, 64th Paragraph, 65th Paragraph, 66th Paragraph, 67th Paragraph, 68th Paragraph, 69th Paragraph, 70th Paragraph, 71st Paragraph, 72nd Paragraph, 73rd Paragraph, 74th Paragraph, 75th Paragraph, 76th Paragraph, 77th Paragraph, 78th Paragraph, 79th Paragraph, 80th Paragraph, 81st Paragraph, 82nd Paragraph, 83rd Paragraph, 84th Paragraph, 85th Paragraph, 86th Paragraph, 87th Paragraph, 88th Paragraph, 89th Paragraph, 90th Paragraph, 91st Paragraph, 92nd Paragraph, 93rd Paragraph, 94th Paragraph, 95th Paragraph, 96th Paragraph, 97th Paragraph, 98th Paragraph, 99th Paragraph, 100th Paragraph



- **Extractor Update**

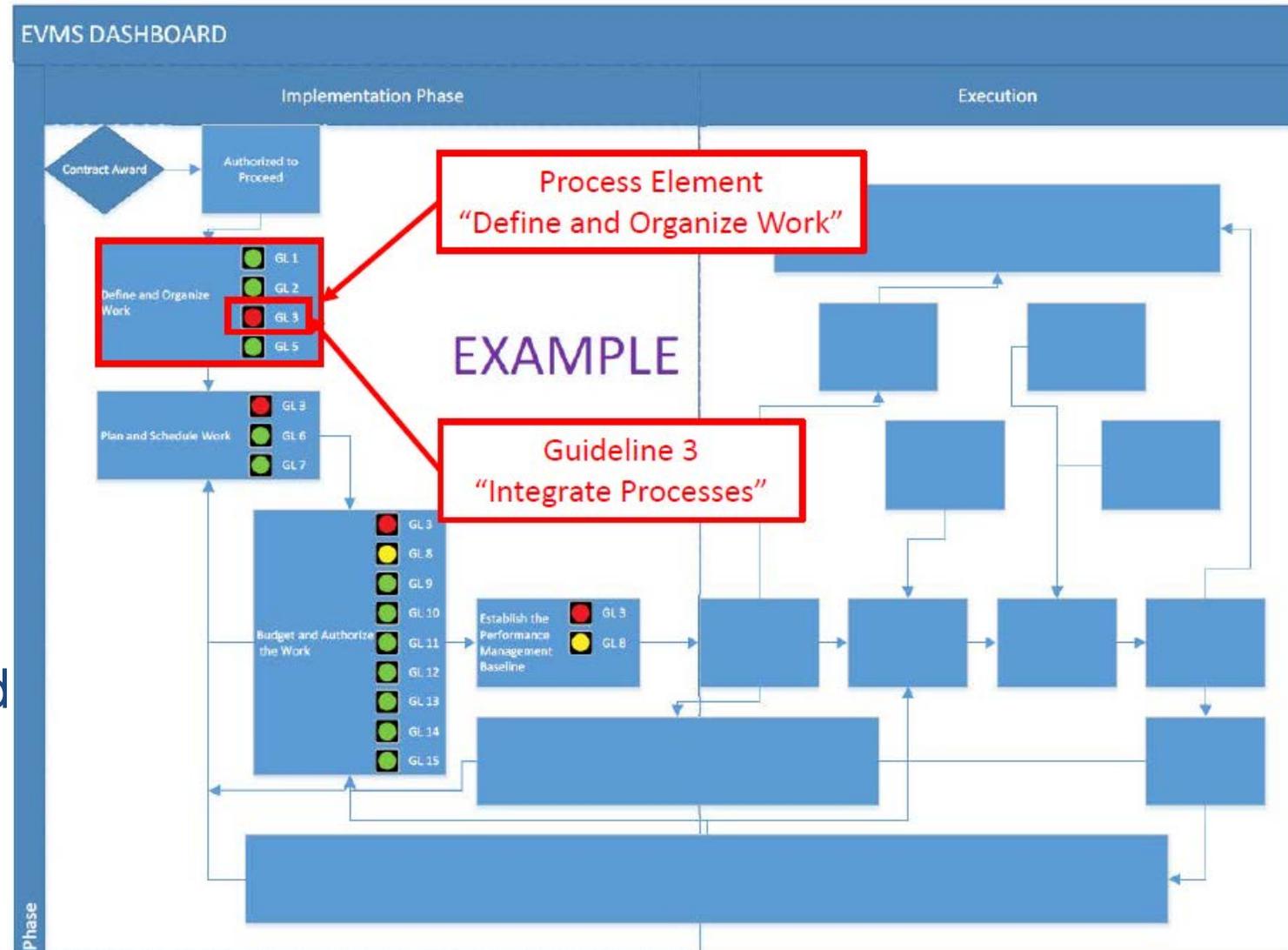
- Technology Update : From Access 2003 to currently supported software
- Intuitive Navigation : Drop downs to simplify process
- Agile Development
- User can configure to extract and report ...
 - Cost data to control account level consistent with current extractor, or
 - Detailed cost data to support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



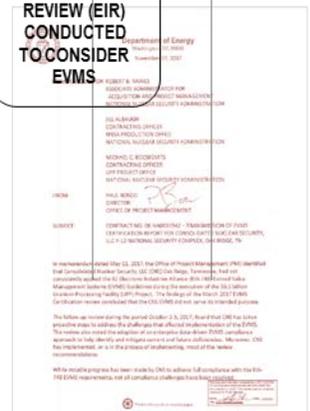
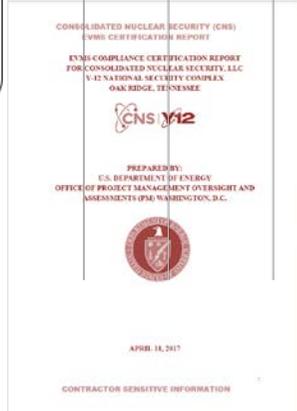
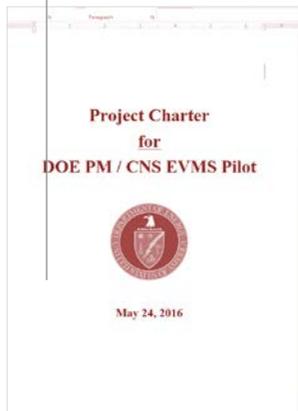
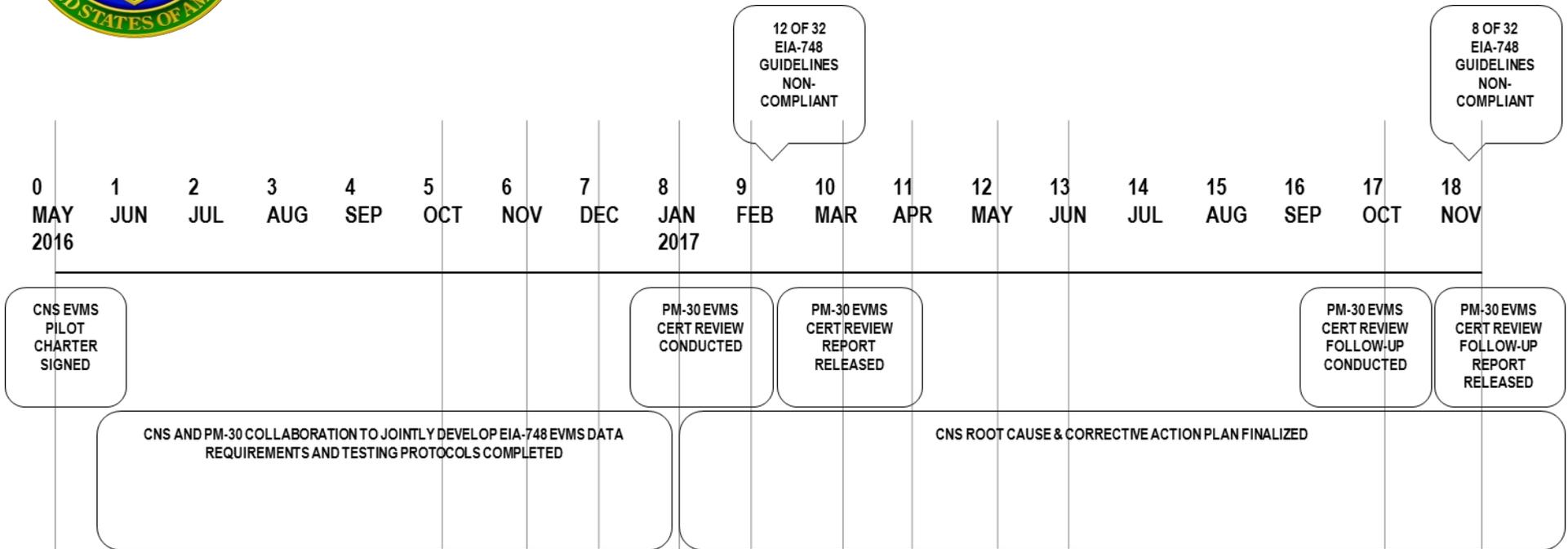


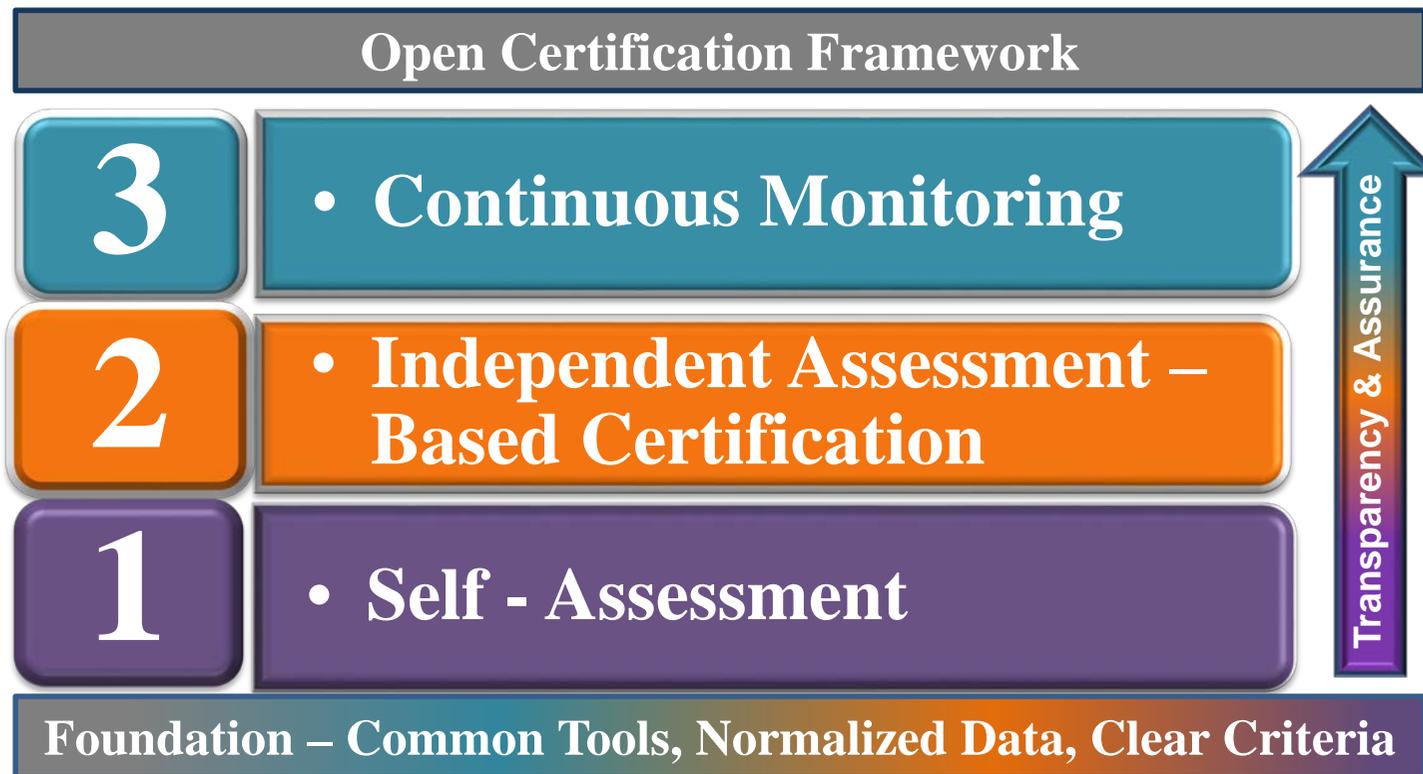
- Completing the Certification Process for CNS
- Focused approach using a data driven, automated analysis approach
- Entering in to a Self-Governance model





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

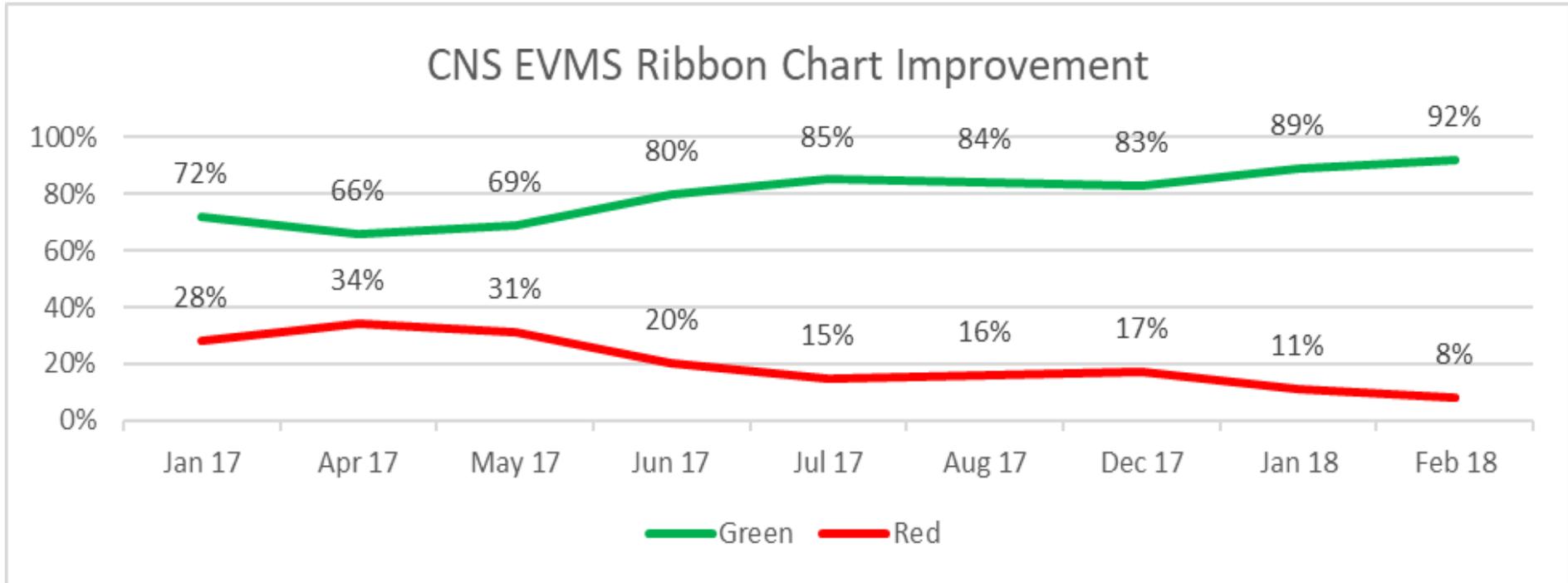
Self-Governance Key Characteristics and Features – Contractor Commitment



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?



PM Office of **Project Management**

