

DEFENSE CONTRACT MANAGEMENT AGENCY



DCMA

ACQUISITION INSIGHT  GLOBAL ENGAGEMENT

DCMA EVMS Update

NDIA Integrated Program Management Division

Presented By:
Mr. David Kester
Director, EVM Policy and Strategy

September 17, 2014

- Rethinking EVMS Compliance
- Data - The New Raw Material
- High level of interest by AT&L for better results

- EVMS Compliance Transformation
- AIMS - Technology Solution
- LMFTW Pilot Update
- Other Items of Interest
 - CBAR Stats
 - Sweeney Memo
 - FY15 Compliance Schedule
 - FY14 Results

BIG DATA - Transforming How DCMA Executes Its DFARS EVMS Compliance Mission

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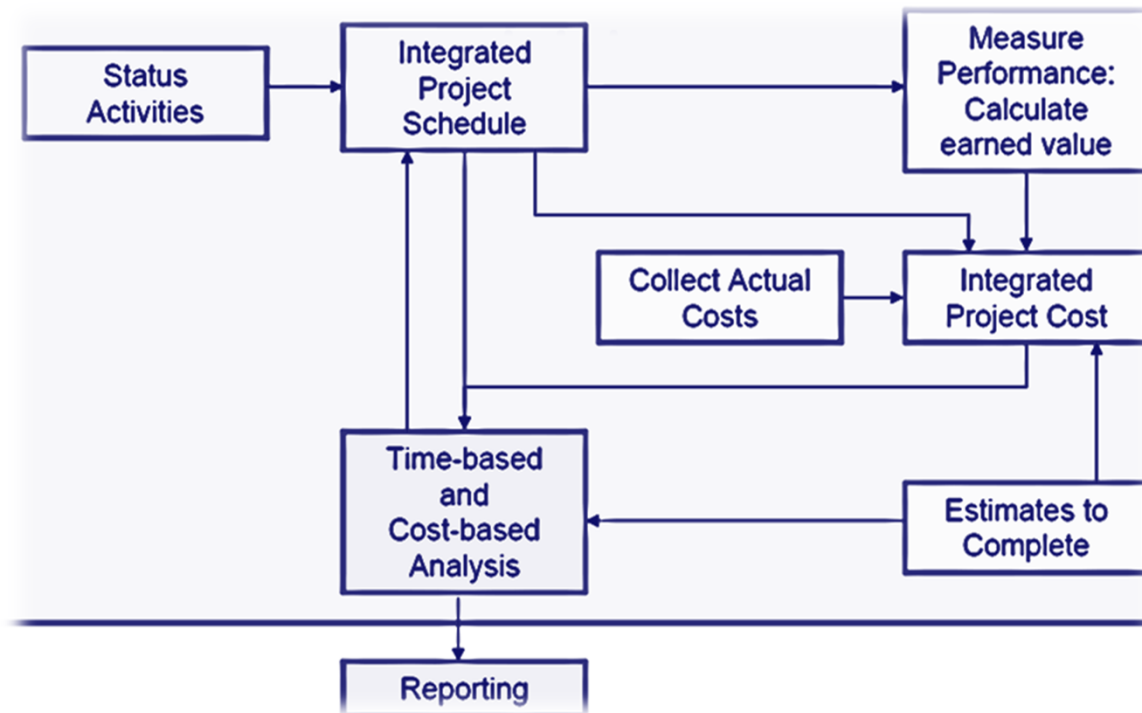
1. Provide Clarity
2. Ensure For Consistency
3. Reduce or Eliminate Costs

PRIMARY GOAL

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- Influence industry partners to field effective (and efficient) EVMS that are compliant with the 32 ANSI-748 guidelines
- Improving Program Management by the way we think about (and use) EVMS

Anatomy Of An EVMS - A System of Systems - Value* Comes Through A Smart Design and An Even Smarter Implementation Strategy



A Focus On The Quantitative Analysis Of Systems

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- Developing numerical (or quantitative) techniques for the analysis and verification of system properties such as reliability (trustworthiness) and relevance (usefulness) of data

A Drop of Blood (Data), An Instant Diagnosis - Early Detection



DATA - The New Raw Material

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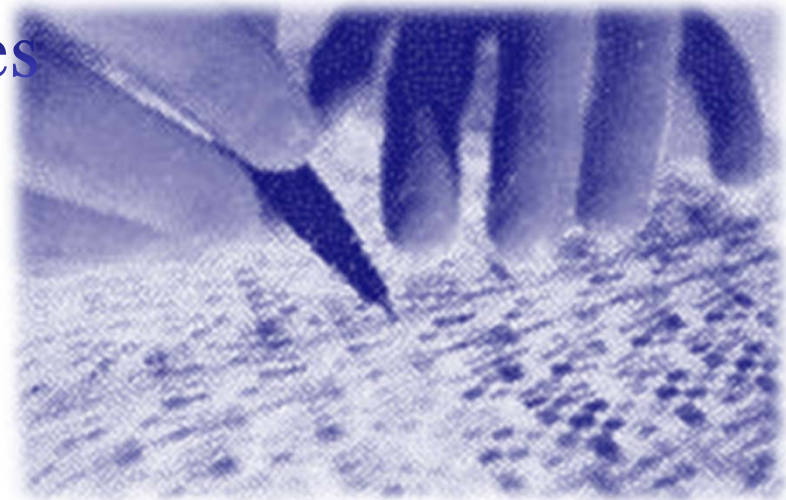
- More Data Doesn't Guarantee Better Decisions
- More Data Is Useless If We Aren't Asking The Right Questions
- Asking The Right Questions Requires Looking At The Right Data In The Right Way

CLARITY - MAPPING THE EVMS GENOME

‘Cracking The Code’

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- 32 ANSI-748 Guidelines
- 62 Guideline Attributes
- 136 Tests
- 189 Metrics



Flowcharts and Algorithms

TEST METRIC 0301i

ATTRIBUTE: The planning, scheduling, budgeting, work authorization and cost accumulation processes are integrated with each other and, as appropriate, with the WBS and the OBS at Control Account (minimum) and Total Contract Level.

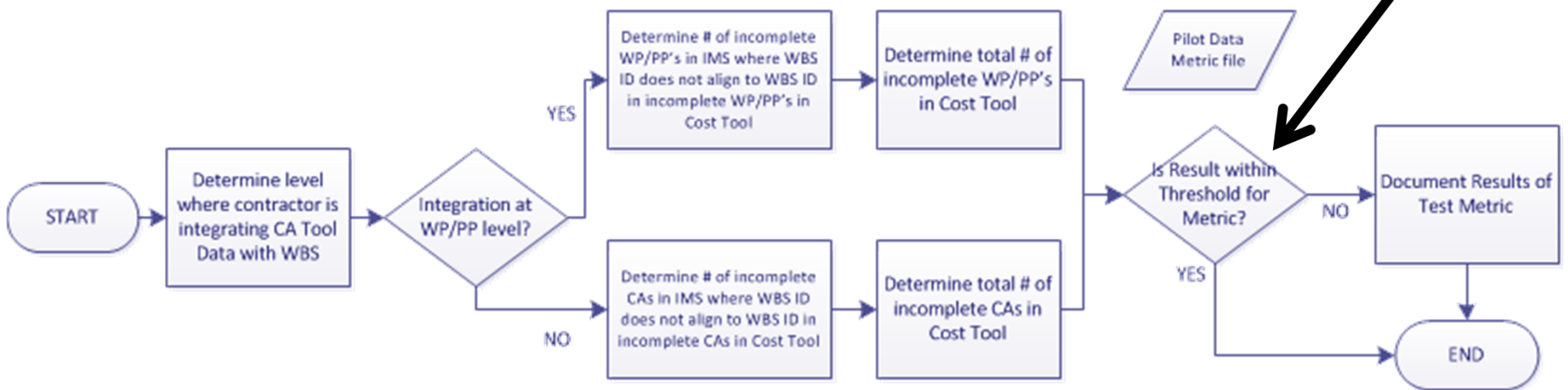
TEST STEP: Is CA data (e.g. ID, budget, PoP, WBS/OBS) traceable between the system artifacts including schedule, cost data, and WAD?

Flowcharts and Algorithms

TEST METRIC 0301i

*Total # Of Incomplete CAs (At A Minimum) With IMS WBS ID Not Aligned To Cost Tool WBS ID < X%
Total # Of Incomplete CAs (At A Minimum) In The IMS*

$$\frac{\text{NUMERATOR}}{\text{DENOMINATOR}} < \text{THRESHOLD}$$



ANALYTICS AND INFORMATION MANAGEMENT SYSTEM (AIMS) - ALIGNING TECHNOLOGY WITH STRATEGY

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- What Is It? Enterprise Information Technology Capability Providing DCMA The Ability To Interact With A Common Central Database For A Comprehensive Range Of Applications
- Why Is It Important?

AIMS - AGGREGATE DATA TO IDENTIFY (AND PREDICT) EVMS NON-COMPLIANCE

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- Correlation and Causation
 - Identifying The Degree And Type Of Relationship Between Any Two (Or More) Quantities, And Then Understanding The Reasons Why
- Predictor For The Likelihood Of An Issue

PILOT PROGRAM UPDATE

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- Purpose of Pilot Program
 - Prove Out The New Data Driven Methodology
 - Requirements Definition for AIMS tool (AoA)
- Participants
 - Lockheed Martin Aeronautics, Ft. Worth, TX
 - BAE Samlesbury, UK
 - Raytheon Missile Systems, Tucson, AZ

PILOT PROGRAM UPDATE

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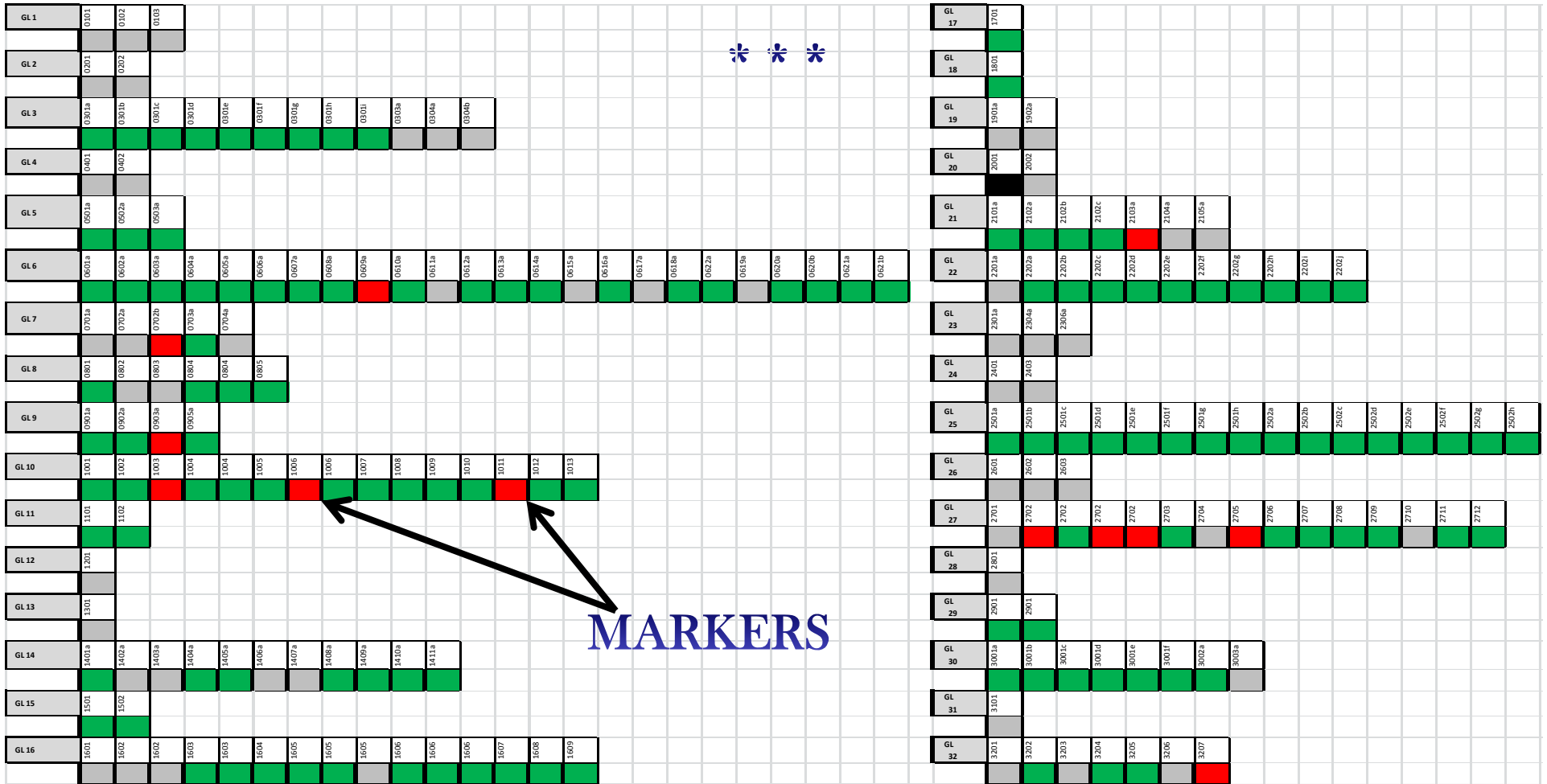
- Expanded to 1st Tier International Supplier
- SSI Waivers Authorized
- Testing Protocols Executed
 - 136 of 189 metrics are automated (72%)
 - Manual protocols are less frequent, standardized

PILOT SPECIFIC CHALLENGES

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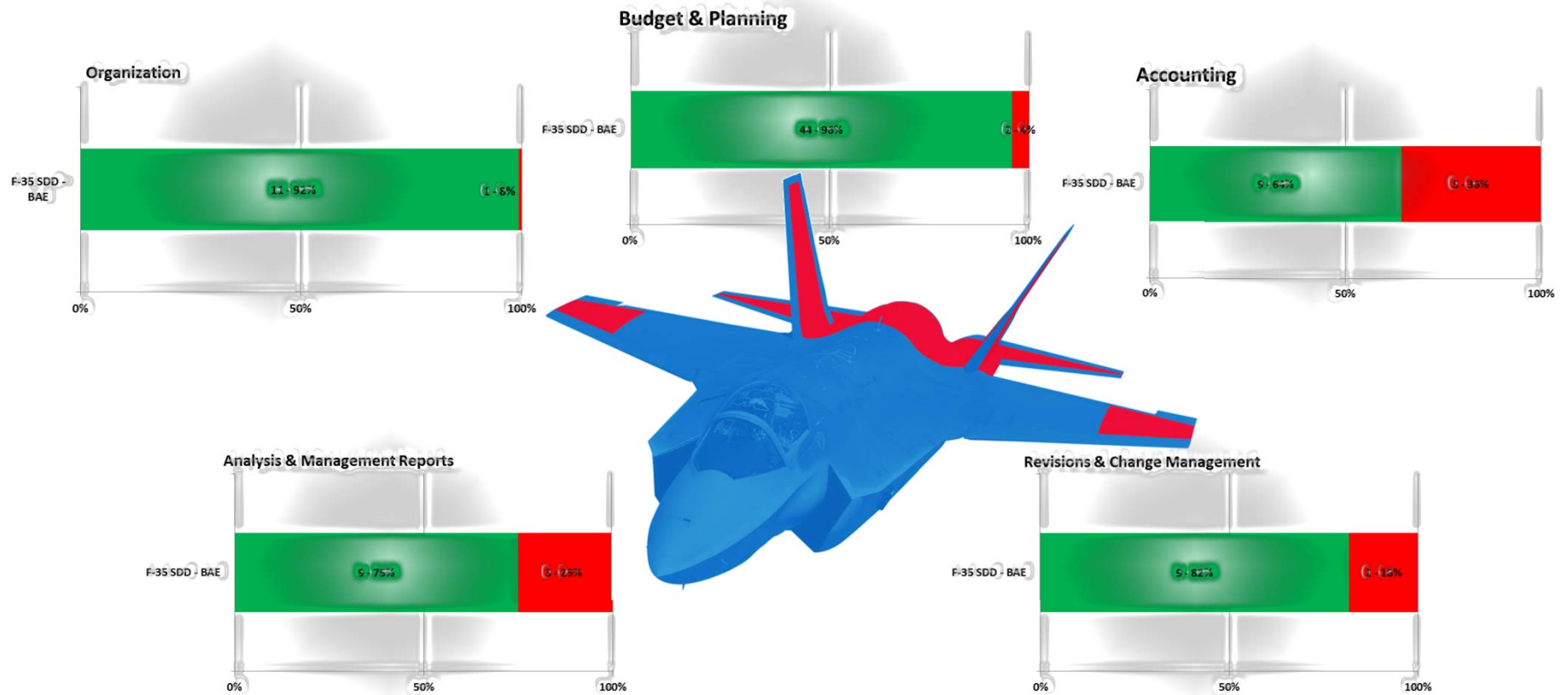
- Tool Limitations
- Data Call Frequency
- Separation of Testing Error from Performance
 - Is it a good test?
 - Are the thresholds appropriate?
 - Is it a performance issue?

LOCKHEED MARTIN AERO RESULTS



BAE SYSTEMS SALMESBURY, UK

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CBAR

The ACO is responsible to ensure business system ratings* and documents* are uploaded into the Contract Business Analysis Repository

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Total Cage Code Count: 4,131

Cage Codes with EVMS: 286 (0%)

Approved

252

88%

Disapproved

8

3%

Not Evaluated

26

9%

SWEENEY EVMS RATING MEMO

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- DCMA seeking to authenticate the EVM system status in CBAR by defining 'Approved' criteria and collecting needed objective evidence (OE)
- If adequate OE does not exist to substantiate the approved status, then . . .

FY15 EVMS REVIEW SCHEDULE

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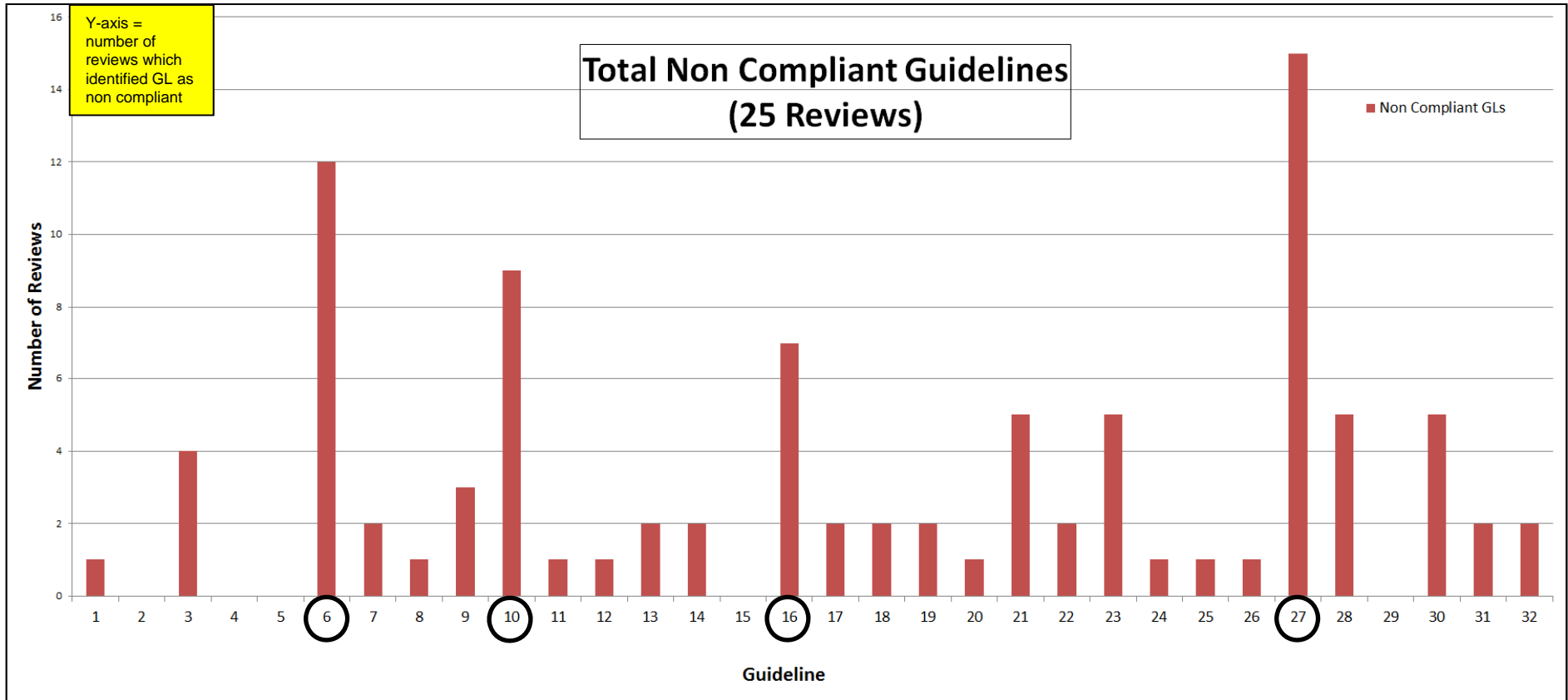
	Quarter 1			Quarter 2			Quarter 3			Quarter 4		
DCMA ORG	October	November	December	January	February	March	April	May	June	July	August	September
DCMAO- EVB								Rolls Royce Indianapolis, IN			Lockheed Martin Marion, MA	
DCMAO-EVC						BAE Rancho Bernardo, CA	iAccess Santa Ana, CA	NGES Sunnyvale, CA			NGAS Redondo Beach, CA	
DCMAO-EVD							TMLS New Orleans, LA		NGIS Huntsville, AL			
DCMAO-EVM					Exelis EWS Clifton, NJ		MMC Marinette, WI			GDLS Sterling Heights, MI	Exelis EWS Ft Wayne, IN	
DCMAO-EVO	L3 Comm Orlando, FL		Nanotherape utics Gainesville, FL		LM SSC Huntsville, AL	HII IS Pascagoula, LA				RR PLC Bristol, UK		SES Huntsville, AL
DCMAO-EVT			Boeing Mesa, AZ	Orbital Chandler, AZ	Exelis Colorado Springs, CO	FlightSafety Denver, CO		Kratos Colorado Springs, CO				Raytheon Aurora, CO
DCMAO EVV		CSC Marlton, NJ				Dynport Frederick, MD	L3 MSS Reston, VA		NGES Baltimore, MD			



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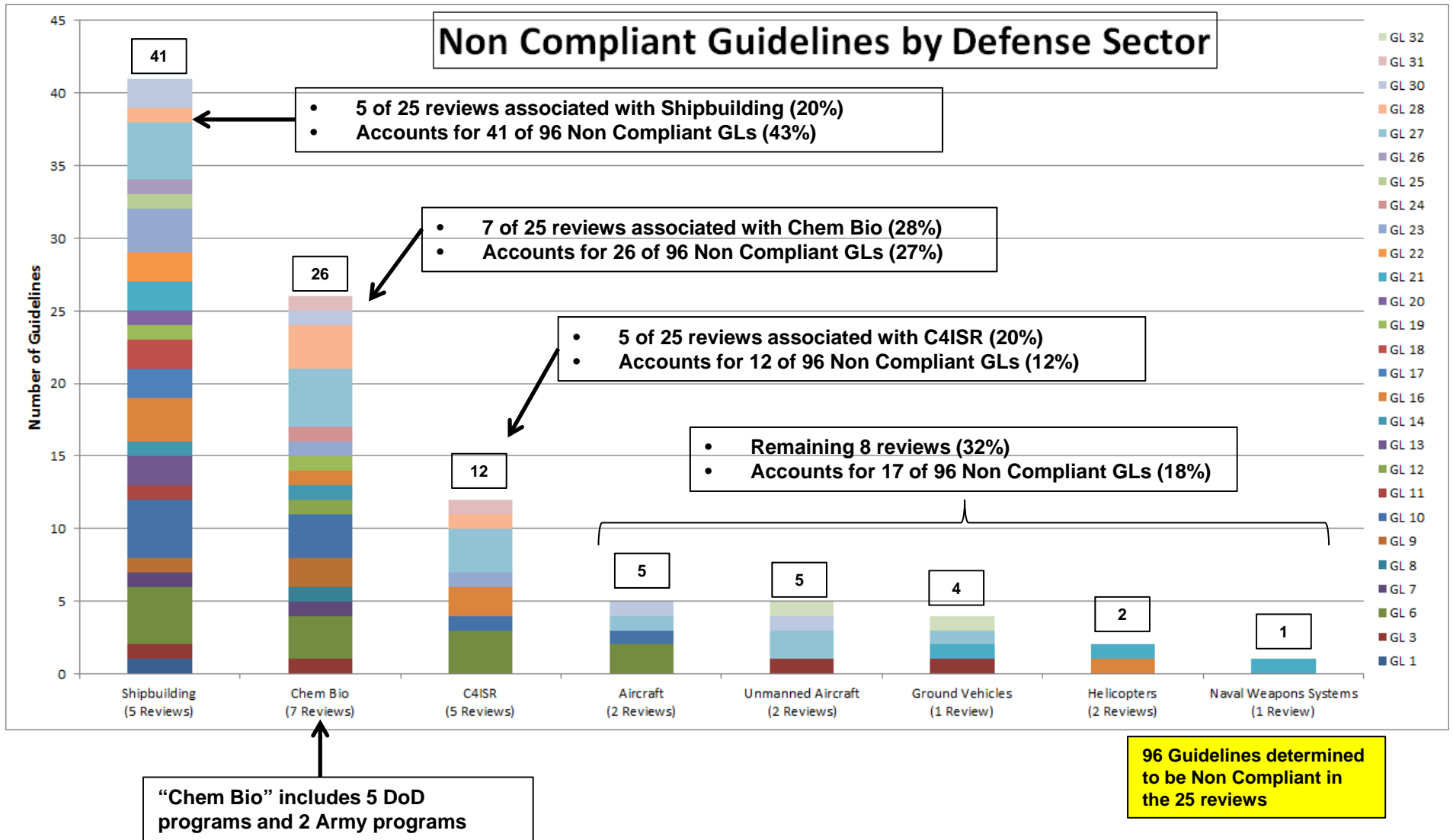
FY14 EVMS REVIEW RESULTS

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- **Total of 96 Guidelines were found to be Non Compliant in the 25 reviews**
 - GL 27 (revise estimate at completion) – found non compliant in 15 of 25 reviews (60%)
 - GL 6 (schedule with network logic) – 12 of 25 reviews (48%)
 - GL 10 (create work/planning packages) – 9 of 25 reviews (36%)
 - GL 16 (record direct costs) – 7 of 25 reviews (28%)

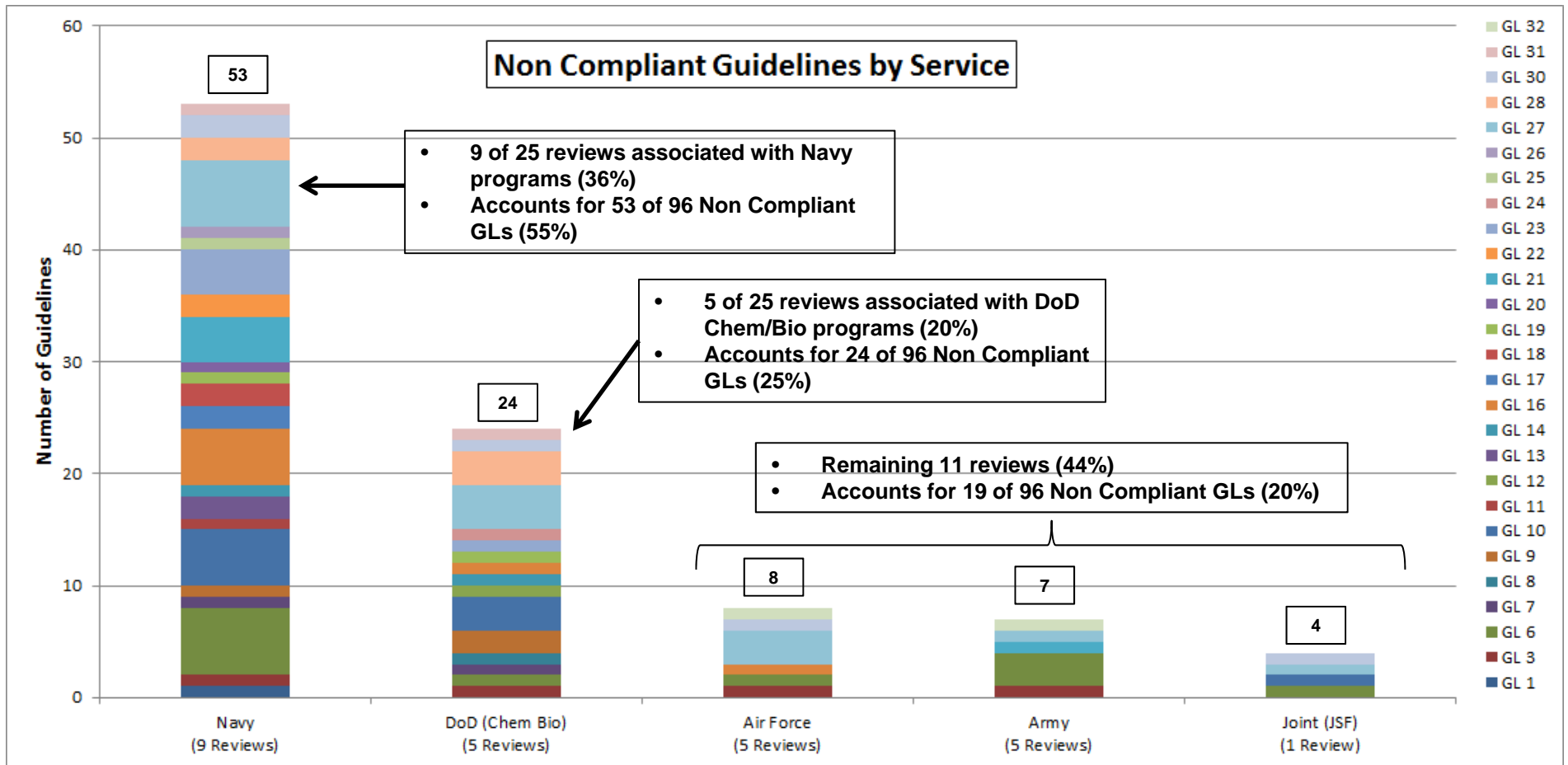
- 96 Guidelines determined to be Non Compliant in the 25 reviews
- Average of ~ 3.8 per review





FY14 Total Non Complaint GLs by Service

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96 Guidelines determined to be Non Compliant in the 25 reviews

LOOKING AHEAD

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- EVMS DFARS Update – Upfront DCMA Engagement
- Finalizing DoD ANSI-748 EVMS Guideline Interpretive Guide – To be further defined by Attribute Testing
 - Intent and Testing Discussions with Shipbuilders
- Continue Working Pilot Program to Test Methodology
- Working with CCM (DAU) to develop a tailored EVM certification and training program
- More Coming at the CPM EVM Conference in November