

# Systems Engineering Mission

- **Execute substantive technical engagement throughout the acquisition life cycle with major and selected acquisition efforts across DoD**
- **Apply best engineering practices to:**
  - **Help program managers identify and mitigate risks**
  - **Shape technical planning and management**
  - **Support and advocate for DoD Component initiatives**
  - **Provide technical insight to OSD stakeholders**
  - **Identify systemic issues for resolution above the program level**
  - **Support Knowledge Based Decision Making**

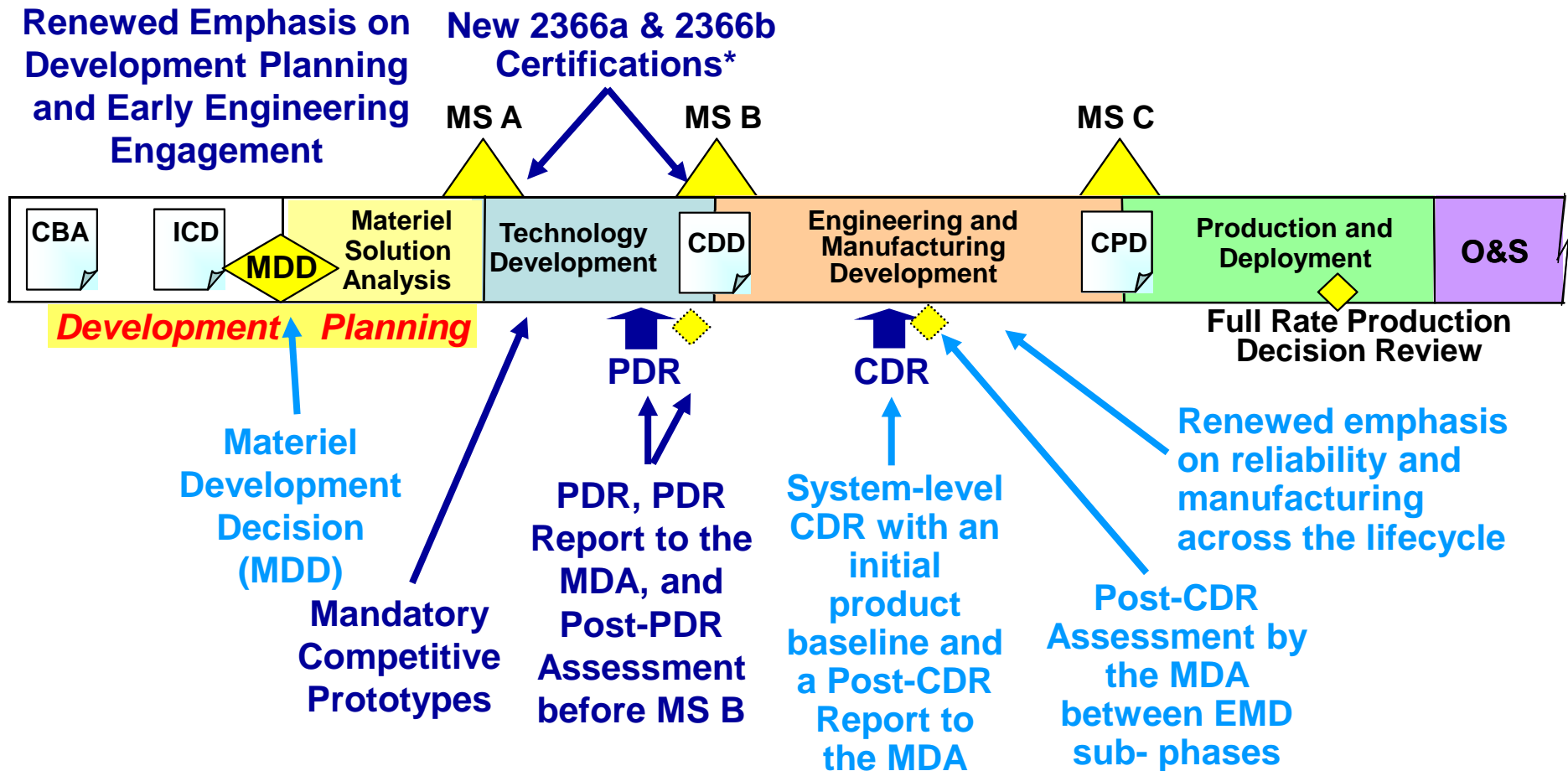
***JHNA Supports OSD Systems Engineering Oversight of Major Defense Acquisition Programs***



# **Weapon Systems Acquisition Reform Act of 2009 (Public Law 111-23)**

- Establishes *Director, Systems Engineering* as principal systems engineering advisor to the SECDEF and the USD(AT&L)
- Requires Congressional reporting on Systems Engineering Capabilities and Major Defense Acquisition Programs achievement of measurable performance criteria
- WSARA signed into law 22 May 2009
- First annual WSARA SE / DT&E Joint Report delivered to Congress 31 Mar 2010

# DoD 5000.02 and PL 111-23 – the Changed Acquisition Landscape

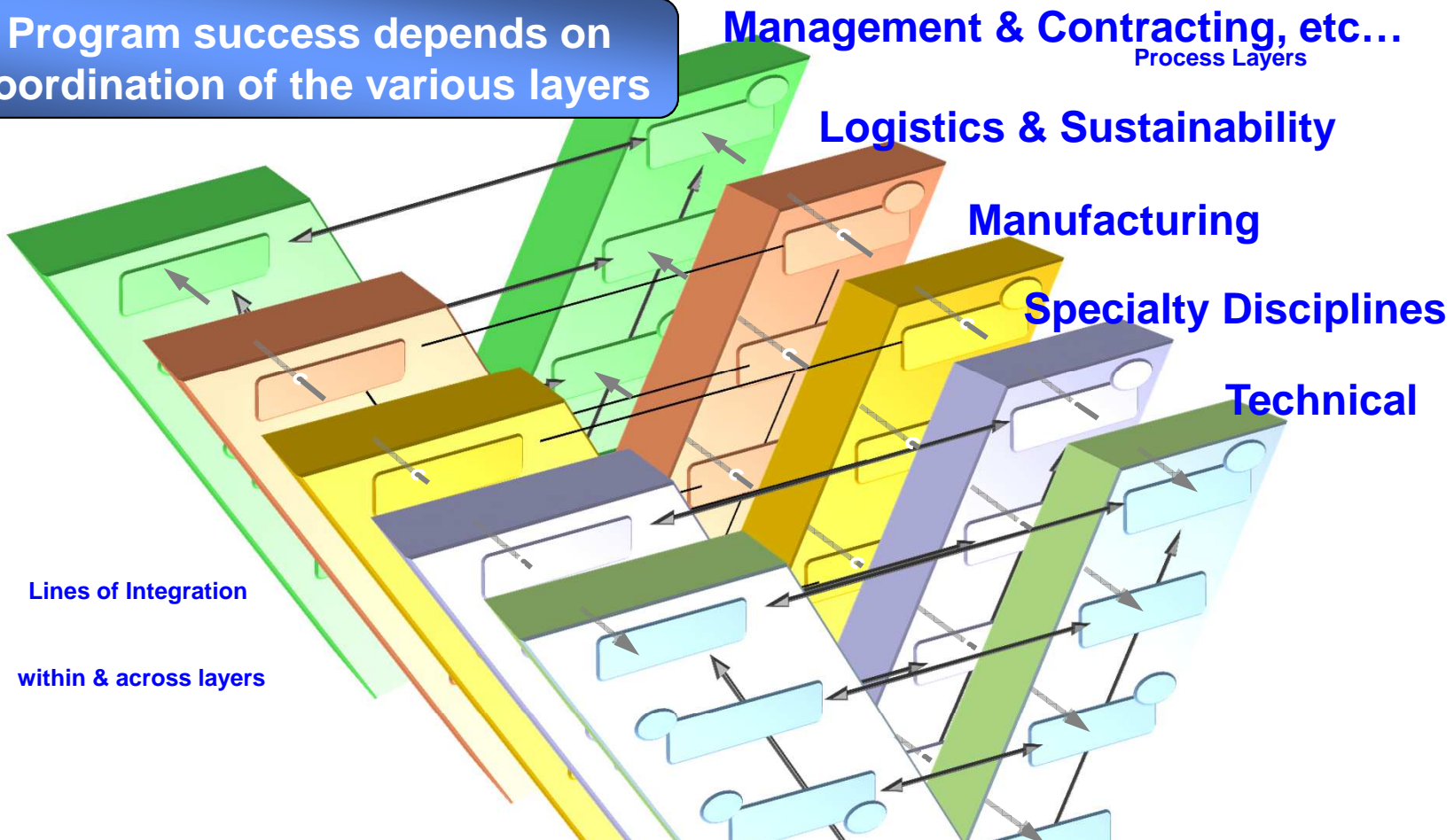


**“Knowledge-based” Decision Making . . .making acquisition decisions with solid evidence and well understood risk**

\* Director, SE supports MDA certifications including PDR Report assessment at MS B

# Systems Engineering Layers

Program success depends on coordination of the various layers

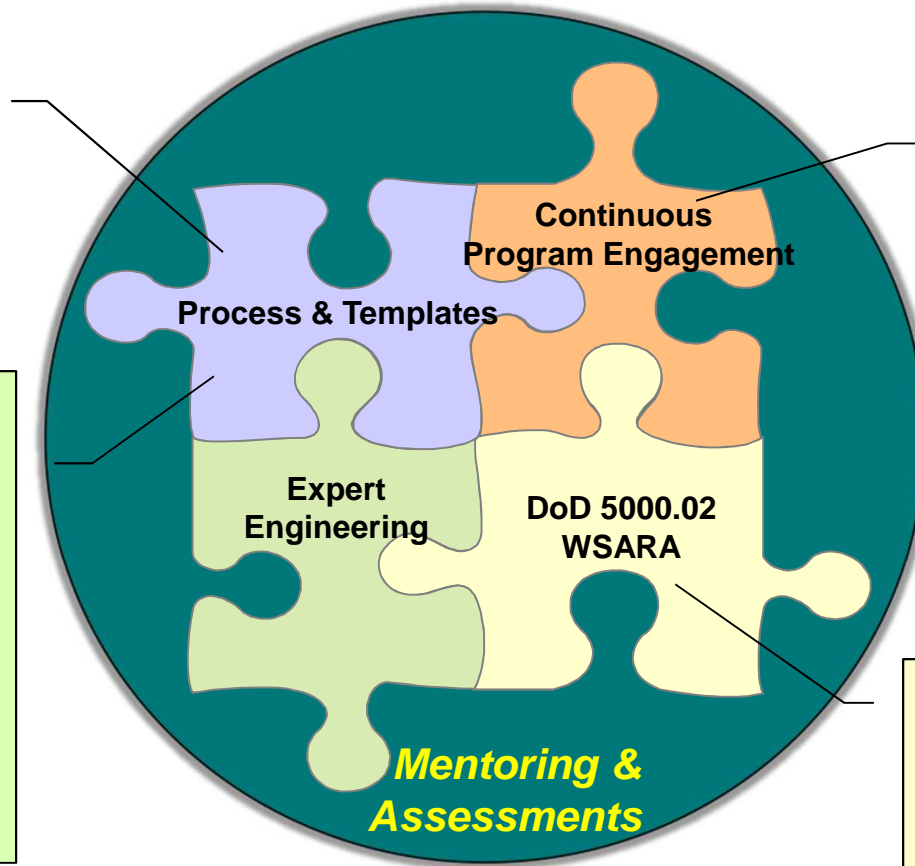


Systems Engineering provides disciplined and coordinated communication and integration across and within the layers of development

# Program Support Reviews

- DAPS Methodology
- Templates, process flow diagrams, Training
- Questions
- Assessment Plans

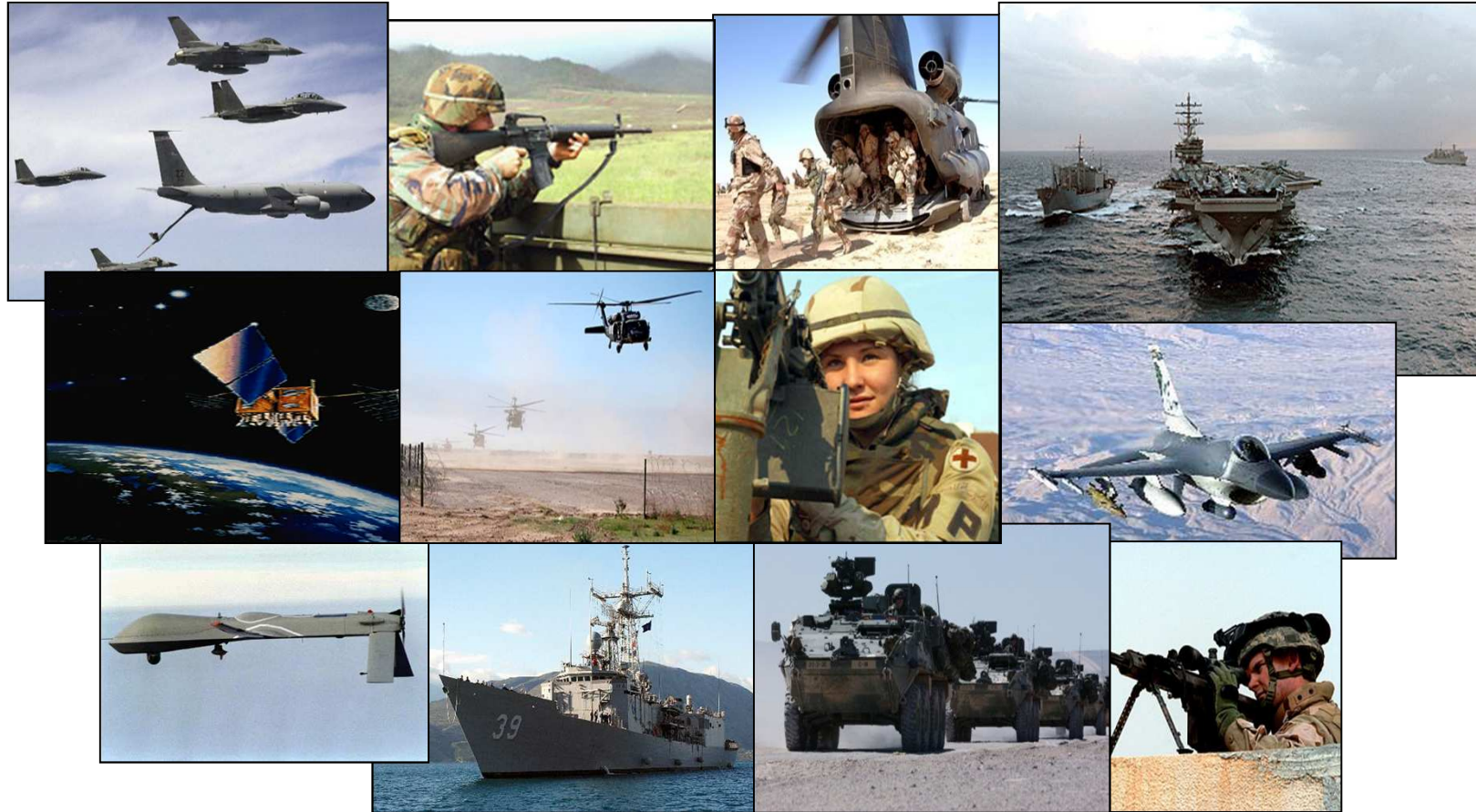
- Program unique recommendations to PMs
- Expert engineering advice within programmatic context to Acquisition Leadership
- Systemic issues to acquisition community for improvements to greater "A"cquisition effort



- Sharper insight into real program issues and complexities
- Greater trust and openness developed w/programs
- Recommendations target the real issues at their root cause

- Assessments of Major Programs
- Program Monitoring
- Systemic Root Cause Analysis

# Systems Engineering: Critical to Program Success



*Innovation, Speed, and Agility*