Department of Defense Initiative on System Engineering Standard Practices

Presented to
National Defense Industries Association
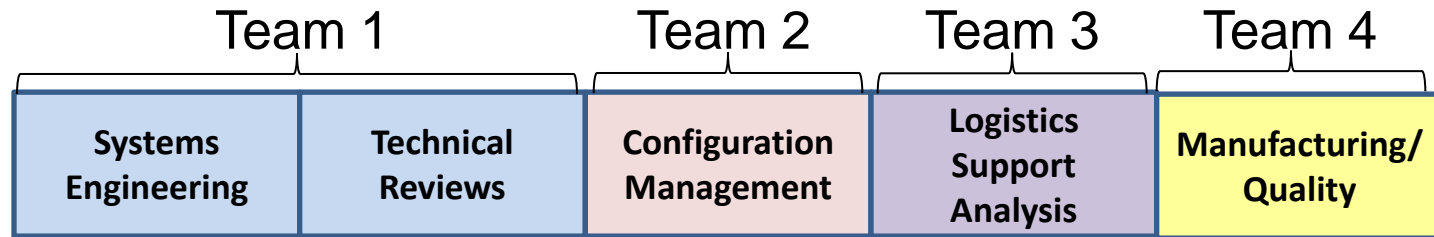## 16th Annual Systems Engineering Conference

October 31, 2013

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Defense Standardization Program Office

Reinvigorating Defense Standardization

➢ Defense Standardization Council identified key, initial areas where standards are needed to restore discipline and consistency

- Systems engineering*
- Technical reviews and audits*
- Configuration management*
- Logistics support
- Manufacturing management
- Others

* There will be detailed presentations on this later in panel session.
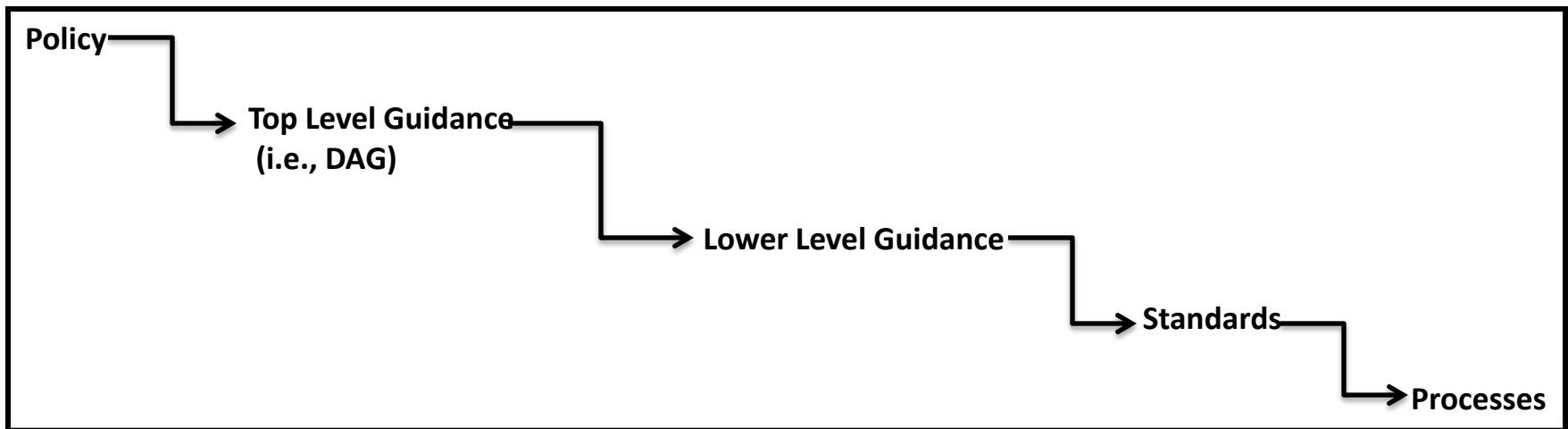
Engineering Process Gap Analysis

Team 1

Team 2

Team 3

Team 4

Systems Engineering	Technical Reviews	Configuration Management	Logistics Support Analysis	Manufacturing/ Quality

What needs to be done?

What is available?

What are the gaps?

Where should solutions reside?

Policy

Top Level Guidance (i.e., DAG)

Lower Level Guidance

Standards

Processes

Logistics Support Analysis Standards

➢ DoD Logistics Support Analysis team determined
  – TechAmerica standard GEIA-STD-0007, "Logistics Product Data," adequate to procure required supportability analysis data
  – TechAmerica standard TA-STD-0017, "Product Support Analysis (PSA)," addressed some, but not all necessary logistics support analysis tasks across the system life cycle
  – MIL-HDBK-502 revision needed to
    • Provide DoD guidance on applying TA-STD-0017
    • Address overall PSA process and its associated activities, the selection and tailoring of those activities to meet DoD program supportability objectives, and sample contract language for acquiring PSA deliverables

➢ MIL-HDBK-502A approved March 8, 2013
  – Available at http://quicksearch.dla.mil/

Manufacturing Management Standard

➤ Air Force tasked to form DoD Manufacturing Management Standard team on Dec 10, 2012

➤ No existing non-government standard

➤ Request for information sent to three Standards Developing Organizations (SDOs)
  – Institute of Electrical and Electronics Engineers (IEEE)
  – Society of Automotive Engineers (SAE)
  – TechAmerica

➤ SAE was selected to create committee to develop standard

Future Standards Efforts?

➢ Reliability & Maintainability

➢ Human Systems Integration

➢ Corrosion Control & Prevention

Questions?