

Systems Engineering Update/SD-22

**Presented to the Parts Standardization & Management
Committee**

October 30 - November 1, 2012

IDA



**4850 Mark Center Drive
Alexandria, Virginia 22311**

Outline

- **News from the Systems Engineering Conference**
- **Some implications for parts management—ideas for new initiatives**
- **DMSMS updates**

Keynote

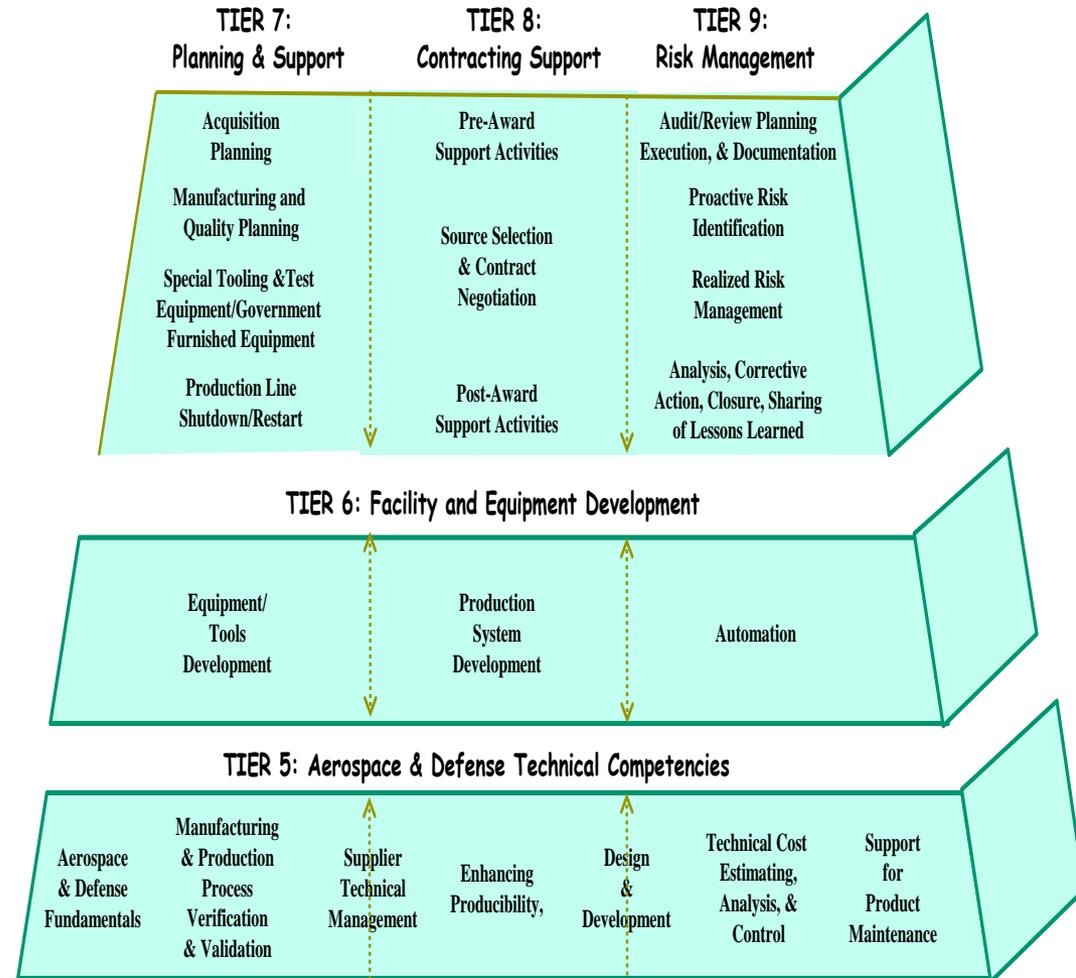
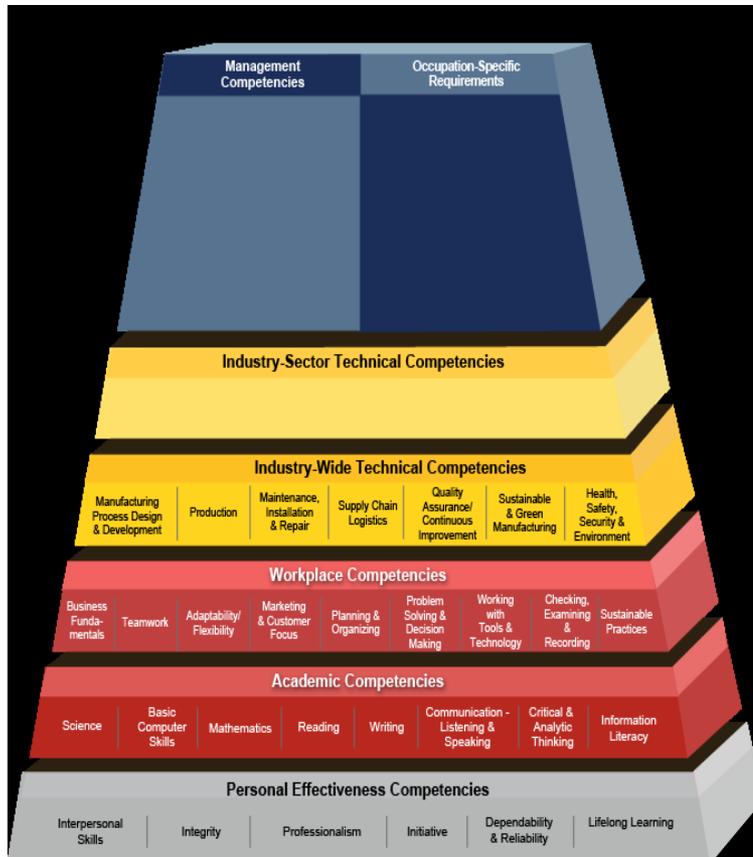


Lunch Speaker

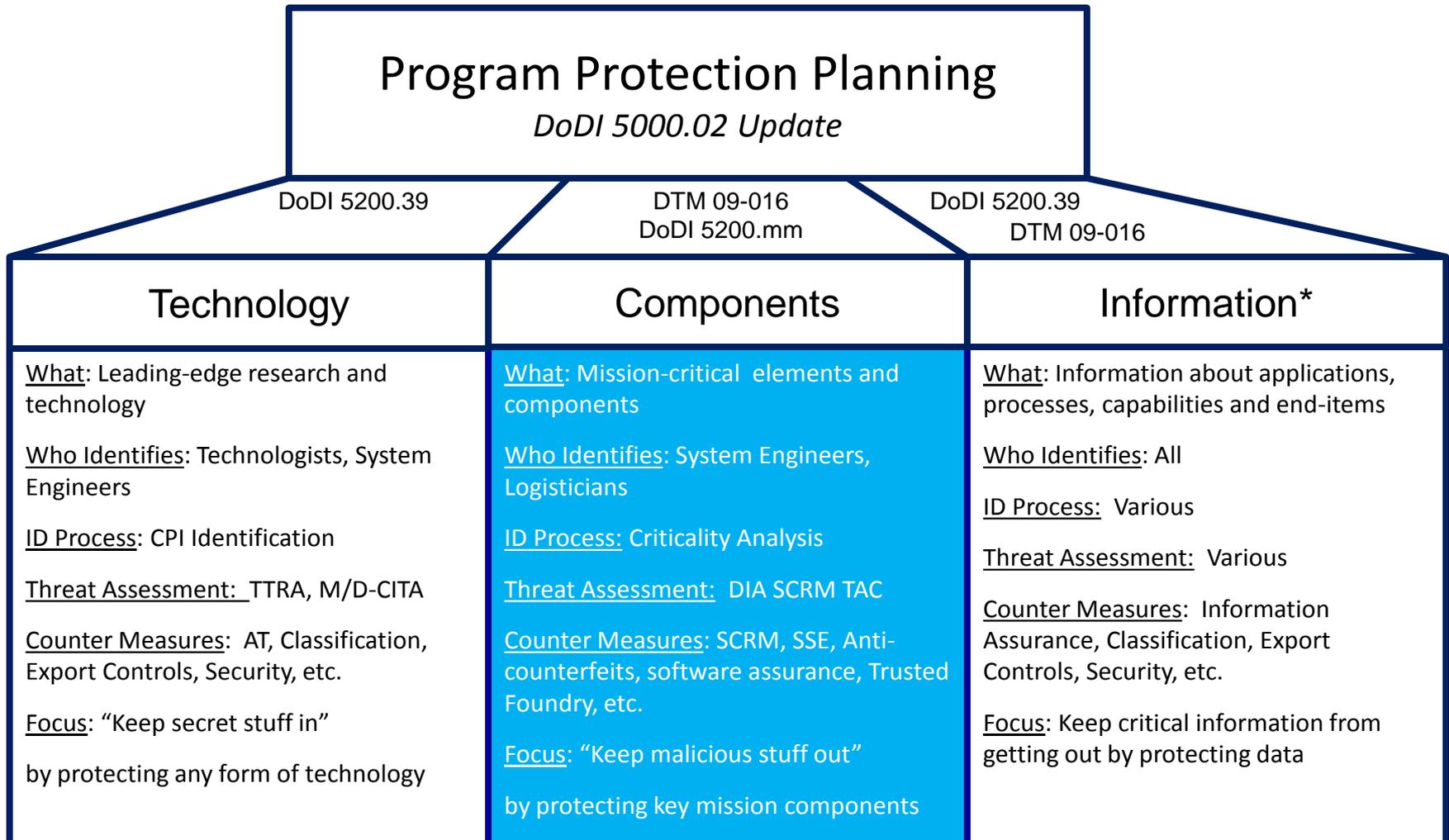


What ~~Is Being Done~~ **Could Be Considered** to Improve the **Quality of Systems Parts Management Workforce**

- Competency models



System Security Engineering (SSE)



Protecting Warfighting Capability Throughout the Lifecycle

* Program Protection Planning Includes DoDI 8500 series

An Early Life-Cycle Perspective on SSE to Reduce Supply Chain Risk

- **Key supply chain risks emerge in sustainment, but proper planning and mitigation must be done early in the life cycle, e.g.,**
 - Trusted suppliers
 - Extra testing
 - Blind buys
 - Use of secure design standards
- **Should parts selection criteria be updated to help mitigate supply chain vulnerabilities? Are changes a function of criticality?**
- **Parts management has a role, but no seat at the table. How can this be changed?**



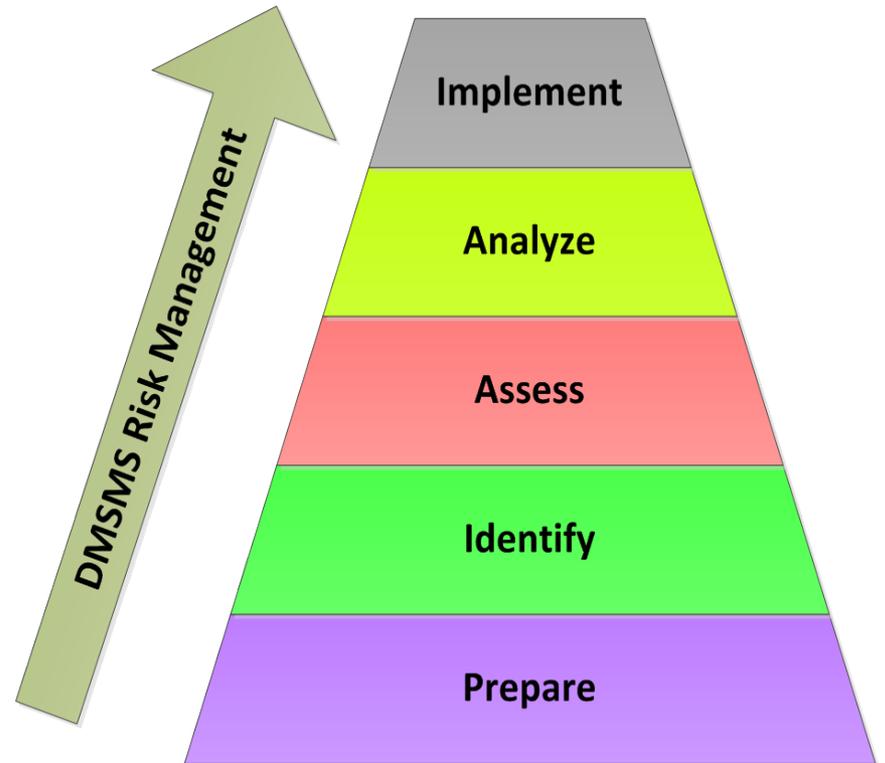
A Sustainment Perspective on SSE to Reduce Supply Chain Risk

- **New DMSMS resolutions framework established**
 - Expanded set of cost factors developed
 - Effort planned to estimate values for the cost factors as a function of resolution
- **What constraints are put on DMSMS resolutions because of the need for extra testing, blind buys, trusted suppliers, and other early life-cycle mitigations because of the criticality of the part**
 - When are these constraints applicable?
 - How should they be applied?
 - Trusted suppliers are not permanent, may fail, be acquired or leave the business. Then what happens?



SD-22 Published

- **Prepare:** Establishment of a DMSMS management program infrastructure
- **Identify:** DMSMS monitoring and surveillance
- **Assess:** DMSMS impact assessment
- **Analyze:** Resolution determination
- **Implement:** Implementation of DMSMS resolutions



SD-22 Planned Future Enhancements

- **Training**



- **Software obsolescence**



- **Criticality**

