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# Diminishing Manufacturing Sources and Material Shortages (DMSMS) Management Considerations for Critical Materials in the Lower Sub-Tiers of the Supply Chain

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#### **About This Publication**

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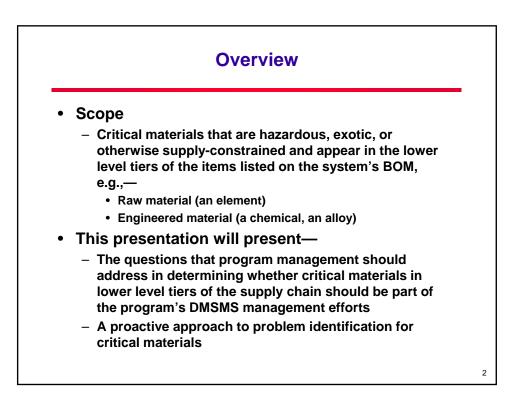
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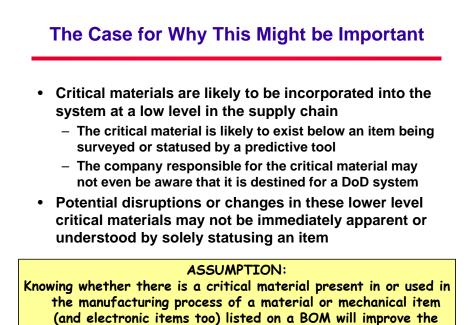
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## Diminishing Manufacturing Sources and Material Shortages (DMSMS) Management Considerations for Critical Materials in the Lower Sub-Tiers of the Supply Chain

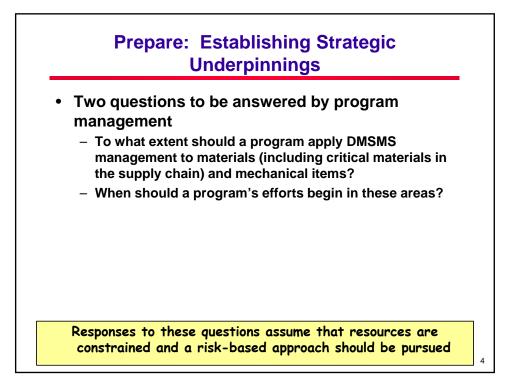
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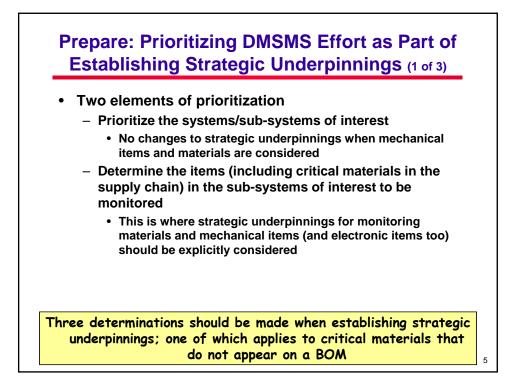


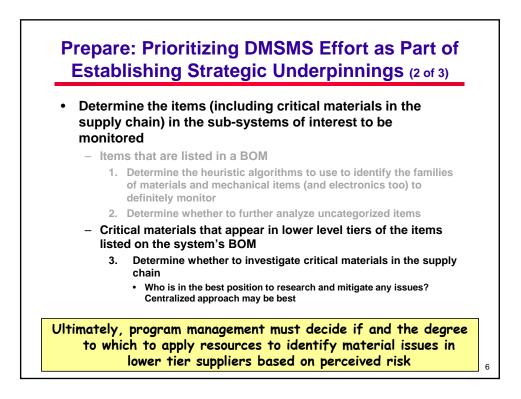




analysis of availability for that material or item





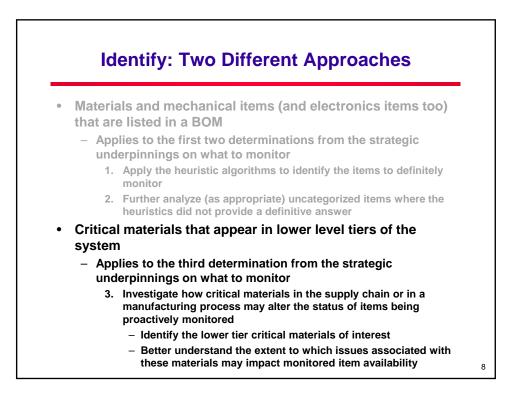


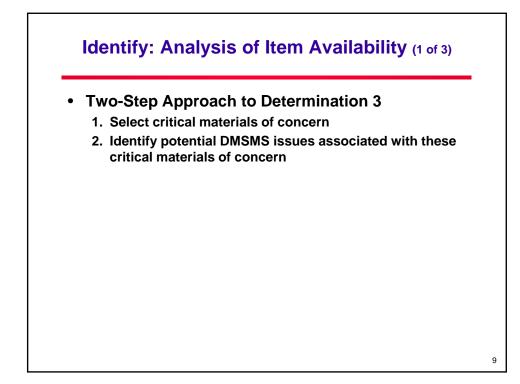
## Prepare: Prioritizing DMSMS Effort as Part of Establishing Strategic Underpinnings (3 of 3)

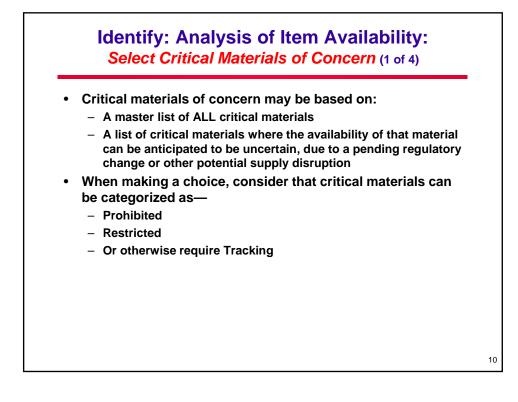
- Determine when DMSMS management effort for materials (including critical materials in the supply chain) and mechanical items should begin
  - Early monitoring provides-
    - A larger window of opportunity to do something about an issue
    - The availability of a larger selection of less expensive resolutions
    - · A smaller likelihood of schedule or readiness impacts
    - The opportunity for designs to be changed if they contain critical materials of concern
    - A baseline for understanding the critical material content of the system, as well as potential issues during sustainment

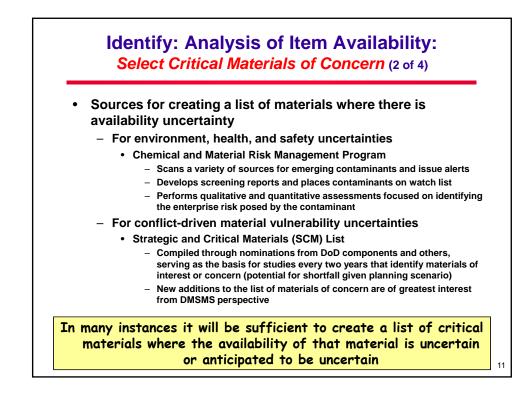
#### BEST PRACTICE:

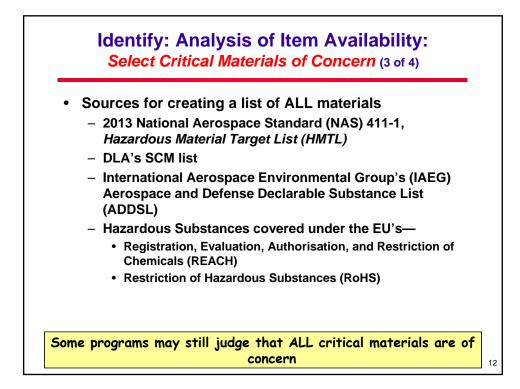
Begin proactive DMSMS management for critical materials should begin by the time of the PDR

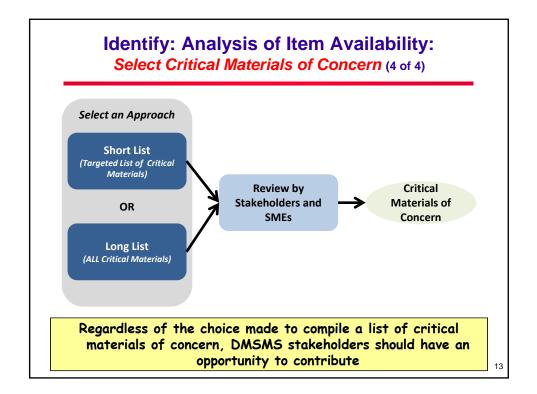


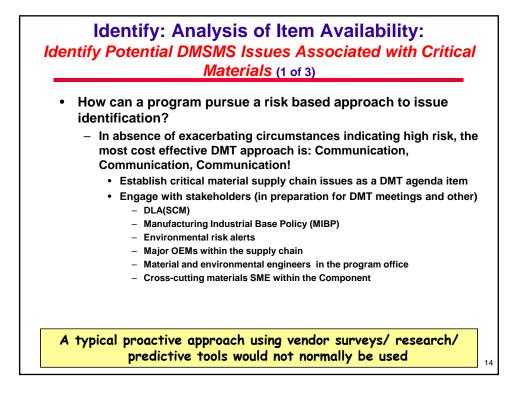








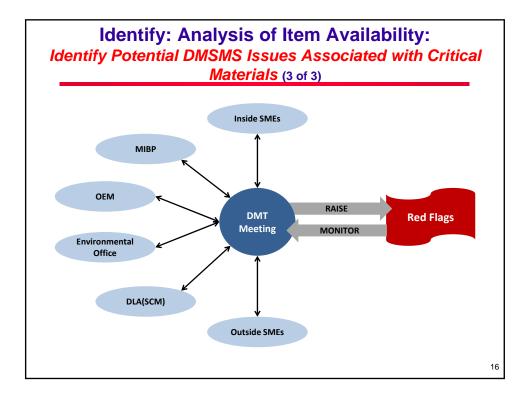


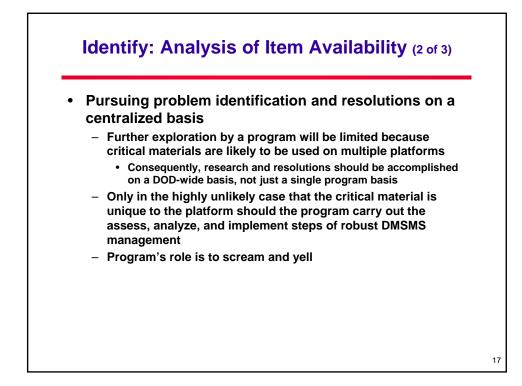


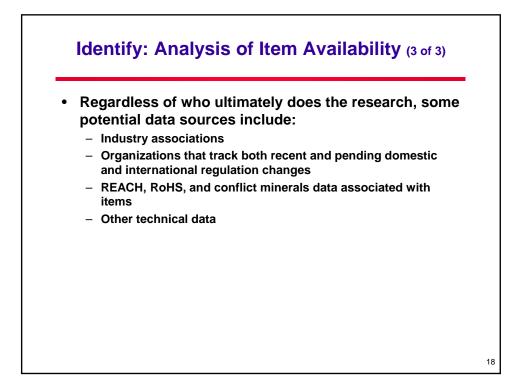
#### Identify: Analysis of Item Availability: Identify Potential DMSMS Issues Associated with Critical Materials (2 of 3)

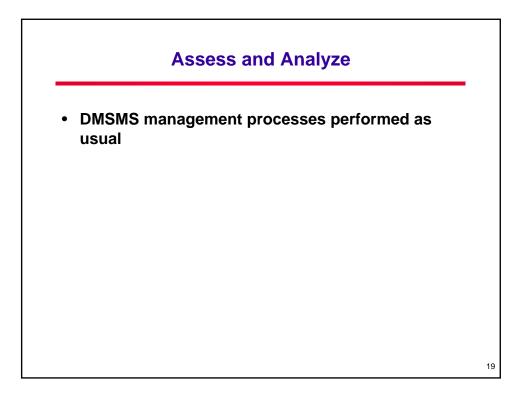
- The purpose of communication regarding critical supply chain issues
  - Encourage stakeholders to be aware of issues, i.e.,-
    - Existing and potential issues of concern to others
      - What is being done about these issues
      - What conversations are taking place about these issues
  - Promote information sharing among stakeholders
  - Ultimately better position stakeholders to anticipate regulations changes and other market-driven disruptions that could impact critical materials in supply chains
  - Once a problem is discovered, the conversation can switch to "what to do about the problem"
  - Opportunity to establish a DOD-wide initiative

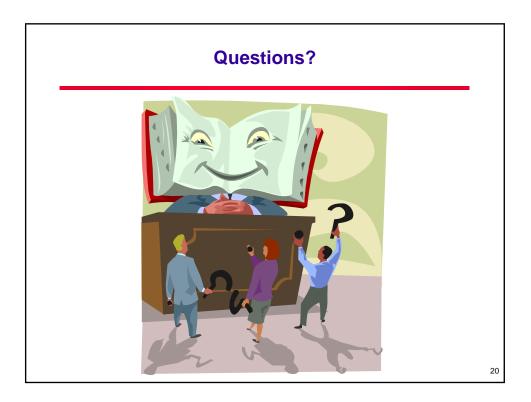












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The programs of the Department of Defense (DOD) have traditionally focused their Diminishing Manufacturing Sources and Material Shortages (DMSMS) management efforts on electronic items. From a risk-based perspective, this is a decision based on the realization that the relatively short life cycles of electronic items virtually guarantee obsolescence at some point, if not multiple points, during the life cycle of DOD systems. DOD guidance and government and private sector data bases and predictive tools have focused predominately on DMSMS management of electronic items as well. The reality, though, is that DOD systems contain items other than merely electronic ones and any item type can experience obsolescence. Facing budget constraints, a program's decision to pursue a more comprehensive approach to DMSMS management is not without challenges. This briefing describes how a program can apply a risk-based approach to identifying which materials (including critical materials located in the lower tiers of the supply chain) and which mechanical items cause the most potential concern. Therefore, the program should be proactively monitored.							
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