

# Recommendations for Software Initiatives

**NDIA Systems Engineering Division  
Software Committee**

**Status Update  
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# Next Steps

- **Based on DASD/SE priorities, develop a master plan with 6 month, 12 month, and 18 month milestones, expected outcomes, and responsibilities resulting in workable guidance for implementing initiative recommendations**
  - Phase 1 (Immediate)
    - Model-Based Systems Development
    - Software Assurance
    - DoD 5000 Lifecycles
  - Phase 2 (Deferred)
    - Agile/Incremental Software Development
    - Improved Software Estimation and Integration with EVM and Technical Metrics
    - Test Optimization
    - Requirements Quality (Systems and Software)
- **Awaiting formal delivery of the Software Initiatives Report from NDIA to Ms. Baldwin**

# Phase 1 Recommended Tasks

- **Model-Based Systems Development**
  - Provide guidance for acquirers and developers to interact within the context of the model
  - Work with contractors to alter CDRLS and rhythms to utilize the models
  - Sponsor a Model Interoperability Working Group identify and solve interoperability issues
  - Champion acquisition changes to fully exploit MBSD across the entire lifecycle
- **Software Assurance**
  - Train the acquisition workforce in applying software assurance principles in specifying and managing acquisitions
  - Collaborate with industry and academia in developing requirements, guidance, and training for processes, tools, and techniques appropriate for tailoring assurance for each stage in the lifecycle and the characteristics of the system acquisition
  - Sponsor prototype efforts, as appropriate.
- **DoD 5000 Lifecycles**
  - Identify tailorable decision criteria for program leaders
  - Identify approaches to better incorporate EVMS and metrics into the selected life cycle approaches
  - Determine what approaches would best ensure their incorporation into system engineering processes
  - Sponsor prototype efforts
  - Example: Guidebook for implementation of the six life cycle models, with special emphasis on the models addressing software.

# Questions?

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