

Adapting MRLs for Single or Limited System Acquisition



22 Sept 15

Dr. Thomas Fiorino
Advanced Product Transitions Corp.
(703) 237-9545



Acquisition Models

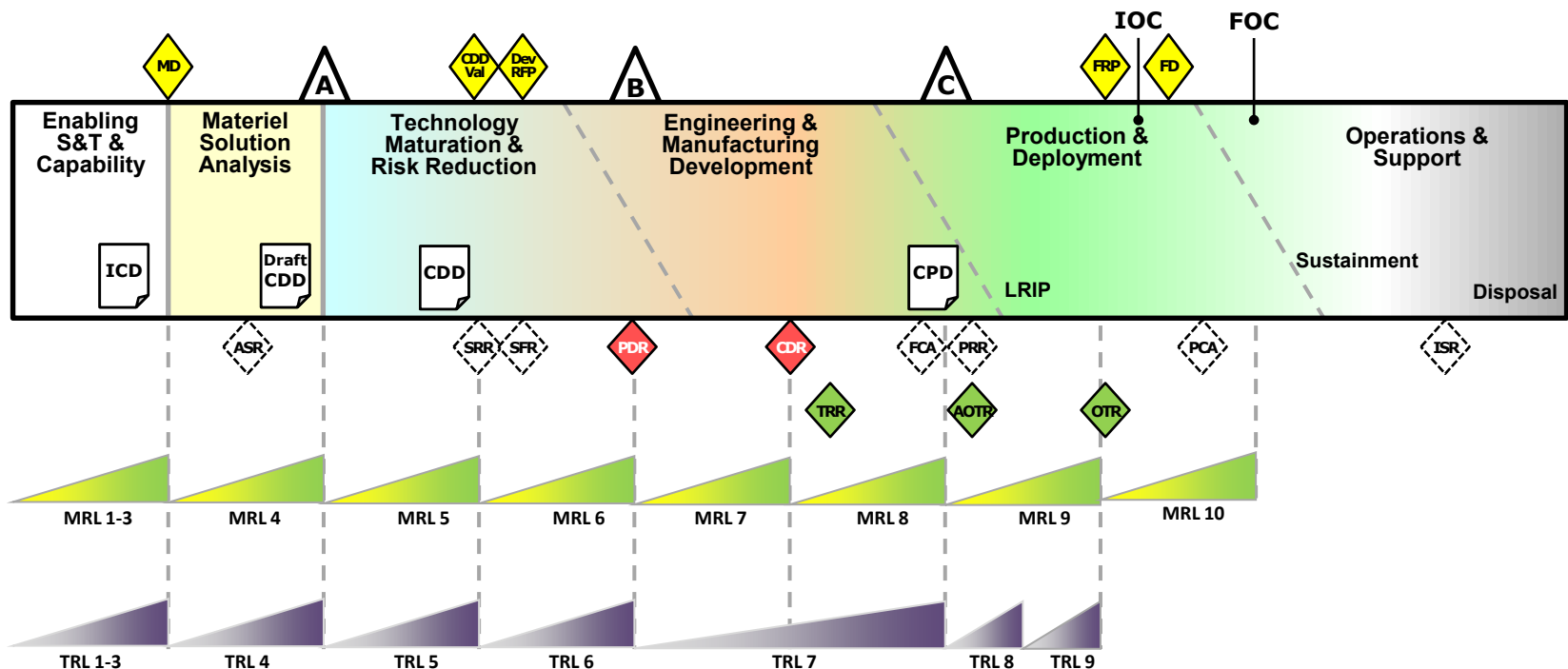
5000.02 outlines six models for acquisition

- **Four Basic Models**
 - Hardware Intensive
 - Defense Unique Software Intensive
 - Incrementally Deployed Software Intensive
 - Accelerated Acquisition
- **Two Hybrid Models**
 - Hybrid A (Hardware Dominant)
 - Hybrid B (Software Dominant)



Hardware Intensive

MRL Criteria and Assessments based on Hardware Intensive model



From MRL Deskbook V2.4

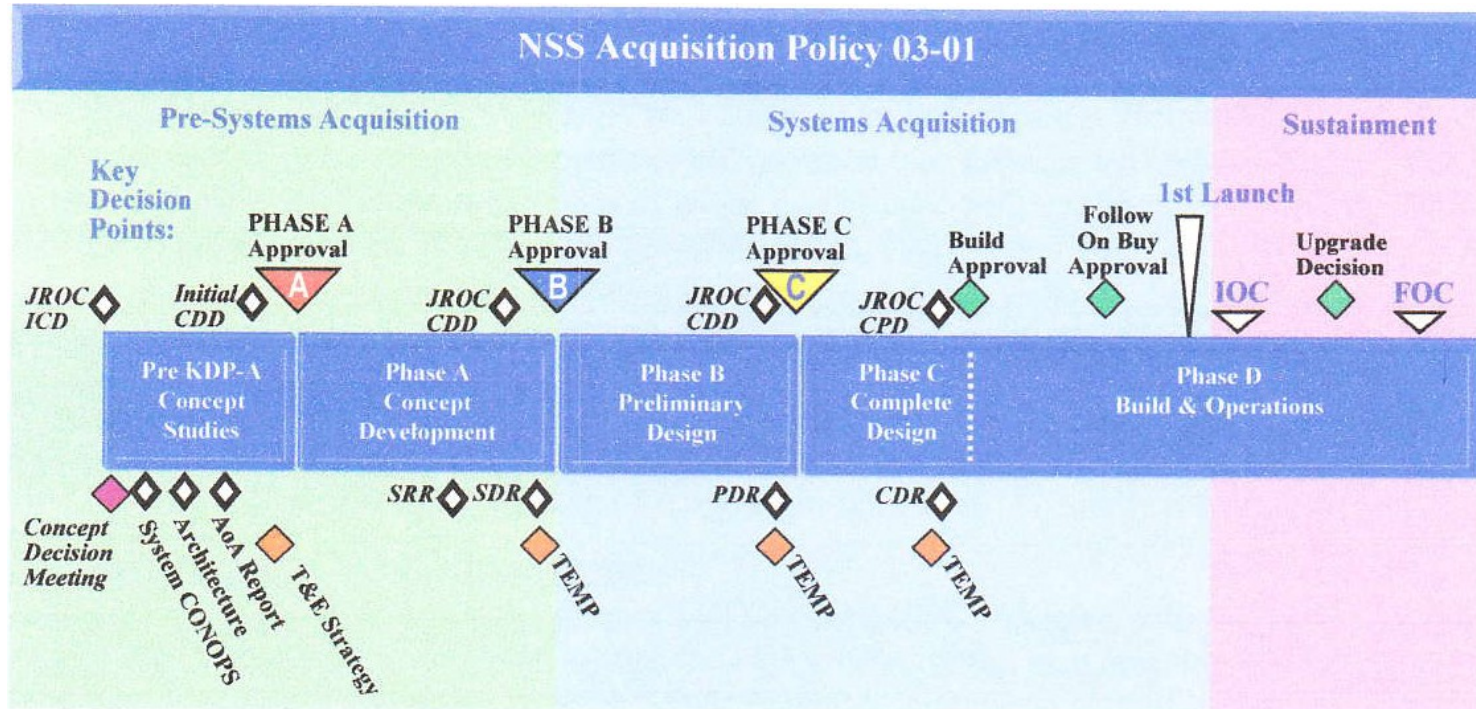


The Need

- **MRL Criteria and Assessments based on 5000.02**
 - None of the 5000.02 models address single or limited systems
- **Single or Limited System**
 - One-of-a-kind system
 - Single or small family of systems
- **National Space Policy 03-01 addressed single or limited systems for space but was superseded by 5000.02**



Previous Policy

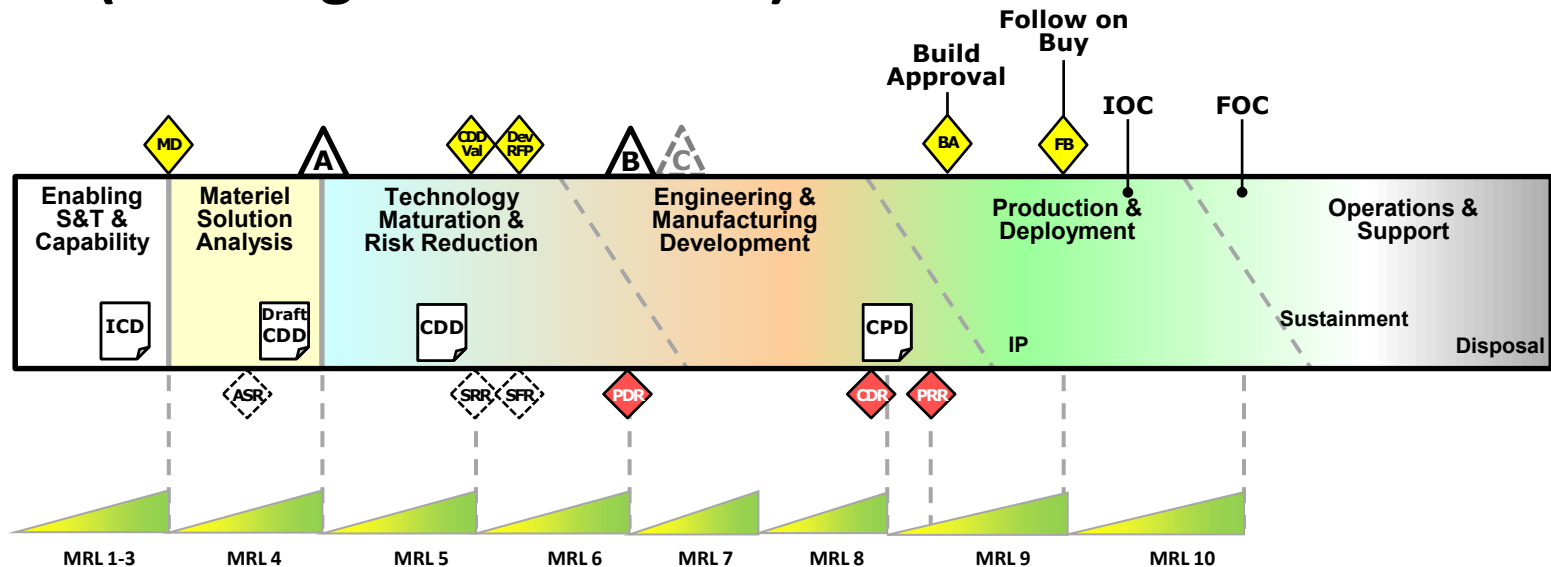


- **Policy 03-01** in practice required a rigorous CDR followed closely by a build approval decision
- The first build (EMD unit) is an operational system



Single or Limited Systems

- Adapt 5000.02 Hardware Intensive model
- Post-CDR build becomes an operational system
 - System must be mature at CDR (meets MRL 8 criteria)
 - Sub-systems, components and items more mature (meeting MRL 9 criteria)





Summary

- **MRLs can be readily adapted for Single or Limited systems**
 - Greater maturity required at CDR
 - First unit is the operational system
 - Follow on decision based on first unit success
- **Goal**
 - More effective and efficient application of assessments to single or limited systems