



Developmental Test and Evaluation (DT&E) Cyber Test Planning

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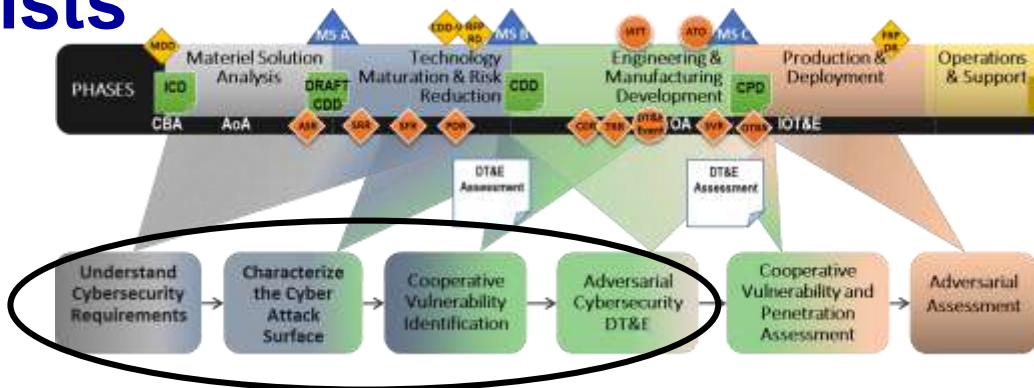


Cyber DT&E and the Risk Management Framework (RMF)



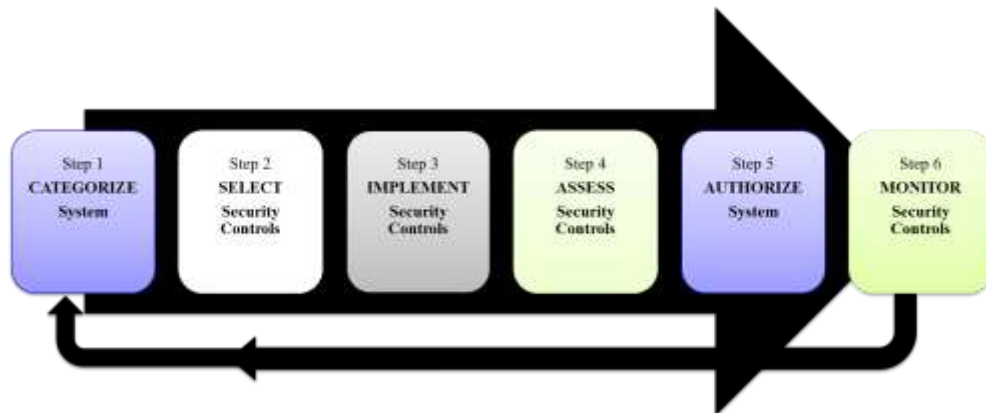
- **Cyber DT&E consists of four *phases***

- Iterative
- Mission focus



- **RMF is a six step process**

- Designed in
- Compliance



**NOT TIGHTLY COUPLED – THIS IS NOT A MARRIAGE
THEY INFORM EACH OTHER – IT IS A FRIENDSHIP**



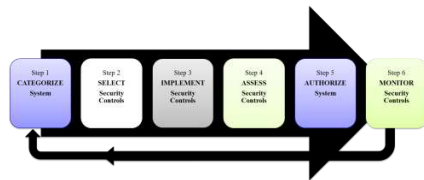
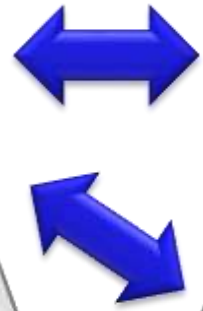
Why do Both?

RMF

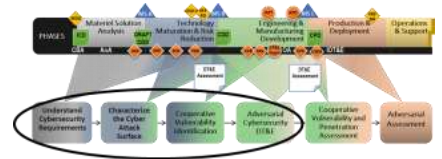
Derived cyber requirements
Authorization to Operate (ATO)

Cyber DT&E

Performance assessment
Verification and validation of system resiliency



RMF Step 4 \neq Cyber DT&E



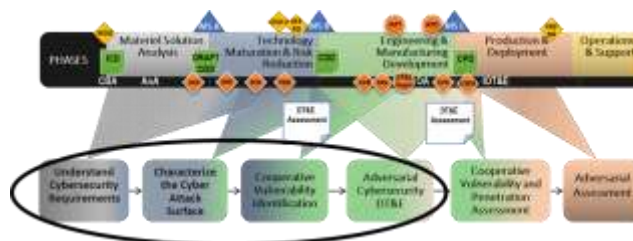
BOTH IMPROVE AND INCREASE SYSTEM CYBER RESILIENCY



Planning and Implementing the Cyber DT&E Phases



- Read the guidebook
- Program must stand up a Cyber Working Group
- Program must partner with a Cyber DT&E team
- Adequately resource Cyber DT&E
- Perform mission based cyber risk assessments (CRAs) or cyber table tops (CTTs)



START EARLY TO FINISH BEFORE MILESTONE C
SHIFT LEFT TO DESIGN RIGHT!



Mission Based Cyber Risk Assessments



- **Many methodologies**
 - Vary in complexity, effort, participants and duration
- **Assess mission impact and likelihood**
 - Threats and system vulnerabilities
- **Actionable information for cyber DT&E**

**DETAILED UNDERSTANDING OF ARCHITECTURE,
OPERATION AND THREATS IS CRITICAL**



Questions?