Test and Evaluation

The Key to Delivering Enhanced Capabilities



Science and Technology

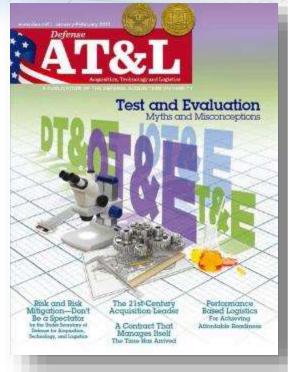
20 August 2015

Dr Steven J Hutchison

Director, Capability Development Support Science and Technology Directorate Department of Homeland Security

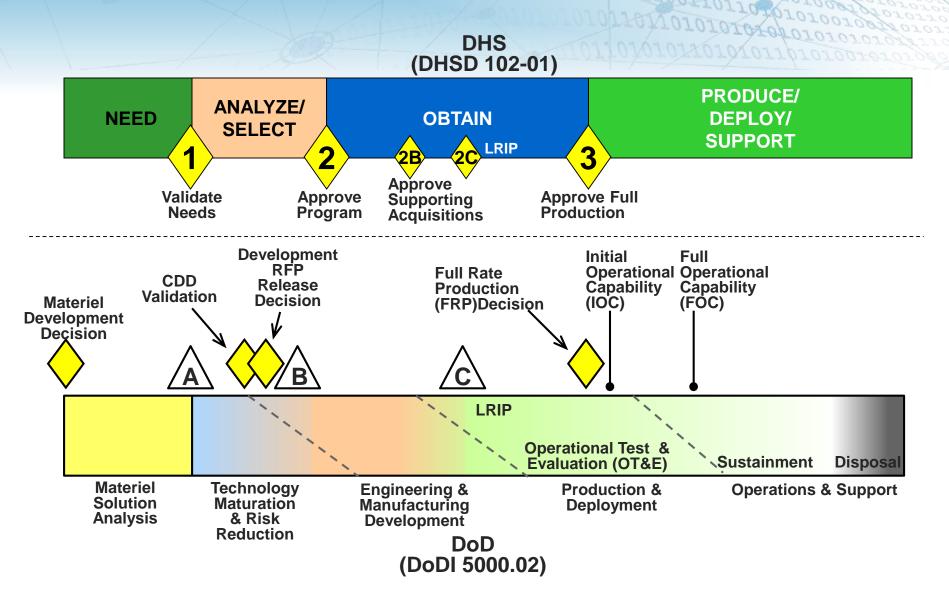
Myths and Misconceptions about T&E

- Only OT&E matters
 - DT&E is "technical testing"
 - Users aren't involved in DT&E
- Cybersecurity is someone else's responsibility
- OTAs can't do DT&E
- Effectiveness and Suitability Completely Describe Today's Systems
- The purpose of DT&E is to get ready for OT&E

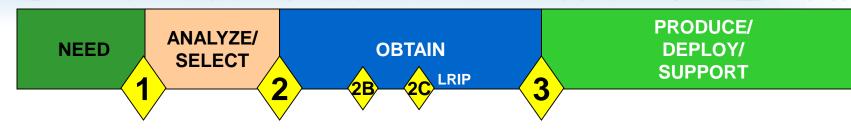


Defense AT&L Jan-Feb 2015

Acquisition: DHS vs DoD



DHS Acquisition



Acquisition Lifecycle Framework

- 4 Phases, 3 Acquisition Decision Events (ADEs)
- 111 Major Programs; 3 Program Levels
 - Level 1: > \$1B
 - Level 2: \$300M \$1B
 - Level 3: <\$300M



DHS T&E Initiatives

- Smart TEMP
- Cybersecurity T&E
- Independent T&E as a lifecycle activity



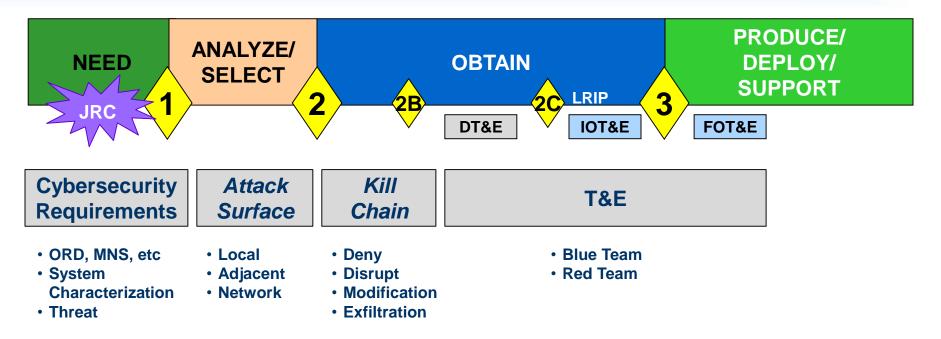
Smart TEMP

- Agile Document Creation and Approval
 - Links to authoritative sources (requirements, threat, IMS, etc)
 - Electronic review, update, and approval
- Start with the E, then design the T
 - Integrated T, Independent E
 - Integrated Evaluation Framework
 - Decision Support Questions
 - CTPs, KPP, COIs
 - MOE, MOP, Data Requirement, data source (integrated test event)
- Follow-on T&E Documentation (i.e., Integrated Test Plans) flows from the TEMP and IEF.



Cybersecurity Test and Evaluation

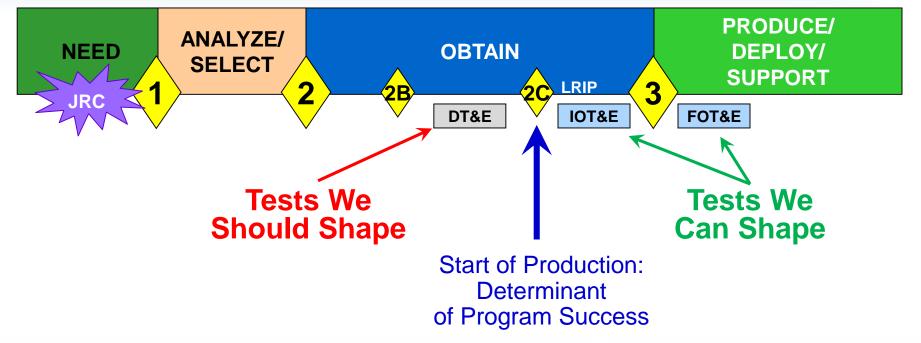
Acquisition Lifecycle Framework





Independent T&E

Acquisition Lifecycle Framework





Summary

- Diverse Acquisition portfolio
- Working to dispel myths about T&E
- T&E initiatives
 - Smart TEMP
 - Cybersecurity
 - Independent T&E

T&E is the Key to Delivering Enhanced Capabilities to Homeland Security Operators





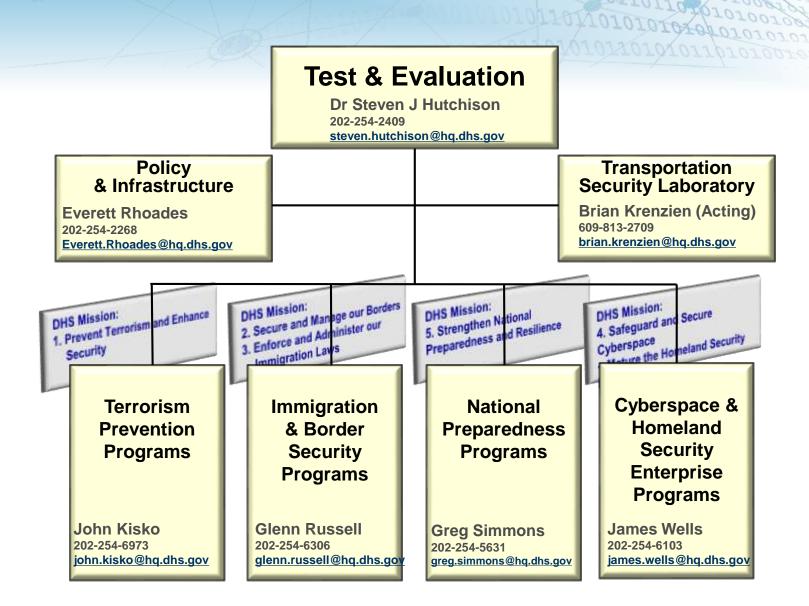








Questions?







Homeland Security

Science and Technology