



# Realities Facing the World of Defense and Homeland Security Test & Evaluation

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# Purpose



- Describe AFOTEC's efforts to enhance acquisition excellence



# Overview



- **Education and Training**
- **Common Lexicon**
- **Institutionalized Early Influence and Integrated DT/OT**
- **Way Ahead**



# Education and Training



- **Partnerships with:**
  - **Defense Acquisition University**
    - AFOTEC guest lecturers integrated into select courses
    - Provided case studies for T&E courseware based on Section 231 initiatives
  - **Air Force Institute of Technology**
    - Instruction at AFOTEC T&E University Reliability Courses
    - AFIT T&E Certificate in work
- **AFMC Wing and Group Commander's Courses**
- **Identifying and tracking T&E experience**



# Common Lexicon



- **Commonly understood**
  - Early Influence
  - Integrated DT/OT
- **Definitions still in refinement**
  - Test plans
  - Operationally relevant data
  - Production representative
  - Operationally realistic scenarios



# Institutionalizing EI and IDT/OT



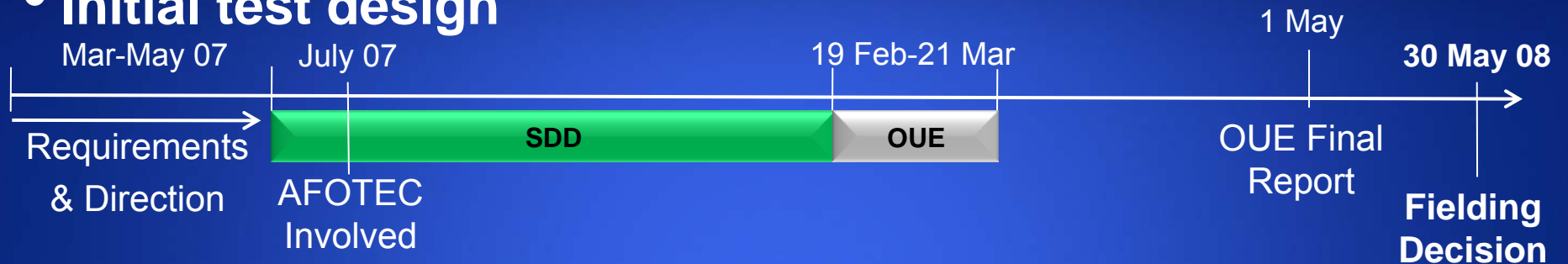
- **Early Influence**
  - Refining test requirements (M&S) early, enabling correction of shortfalls when costs are lower
- **Integrated DT/OT**
  - Contracts with access to DT data
  - Mold DT scenarios to gather operationally relevant data
  - Communication and coordination required to manage risk
- **Reducing the cost & time of the T&E enterprise**
  - Maintain the level of confidence
  - Get capabilities to the warfighter on time and at cost



# LJDAM OUE IDT/OT

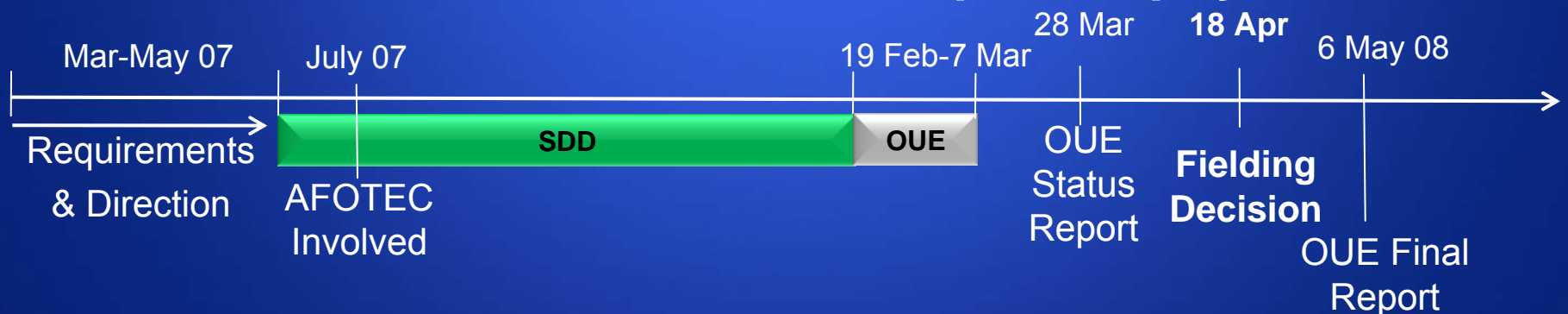


## • Initial test design



- Initial OT requirement was 10 weapon drops
- Initial OUE cost and schedule estimate was \$2.58M / 31 Days

## • Actual test execution with IDT/OT philosophy



- Leveraged 12 DT weapon drops, reduced OT reqt to 5
- Final OUE saved \$1.43M and accelerated fielding 6 weeks



# Way Ahead



- Refine and codify IDT/OT
- Continue to develop a common understanding of IDT/OT process
- Focus on Cyberspace Testing





# Summary



- We must manage of T&E experience
- Integrated DT/OT is the way ahead and will require breaking paradigms and engender greater communication and coordination between DT and OT

***AFOTEC's objective: deliver warfighting capabilities faster and with more confidence, enabling Airmen, and often our Joint and Coalition partners, to accomplish their mission more effectively and with less risk***



# Panel Questions



- **Army Test & Evaluation Command**
  - As the largest test agency in the DoD, how will you recruit and develop your workforce?
- **Commander, Operational Test & Evaluation Force**
  - What is the effect of DoDI 5000.02 on test & evaluation of ship building?
- **Marine Corps Operational Test & Evaluation Agency**
  - Describe your ability to execute OT&E in a reduced resource environment.
- **Department of Homeland Security**
  - With the 22 agencies consolidated under the DHS umbrella and reduced budgets, do you see an opportunity for an operational test agency across all DHS agencies and an integrated approach for OT&E?