

US ARMY TEST AND EVALUATION COMMAND (ATEC)

Turning Challenges Into Opportunities

Mr. Robert S. Carter
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U.S. Army Test and Evaluation Command





Mission, Vision, End State

Mission

ATEC plans, integrates and conducts experiments, developmental testing, independent operational testing and independent evaluations and assessments to provide essential information to acquisition decision makers and commanders.

Vision

Determine the true capability provided to our Soldiers through resource informed developmental, integrated and operational test and evaluation in an independent and objective manner.

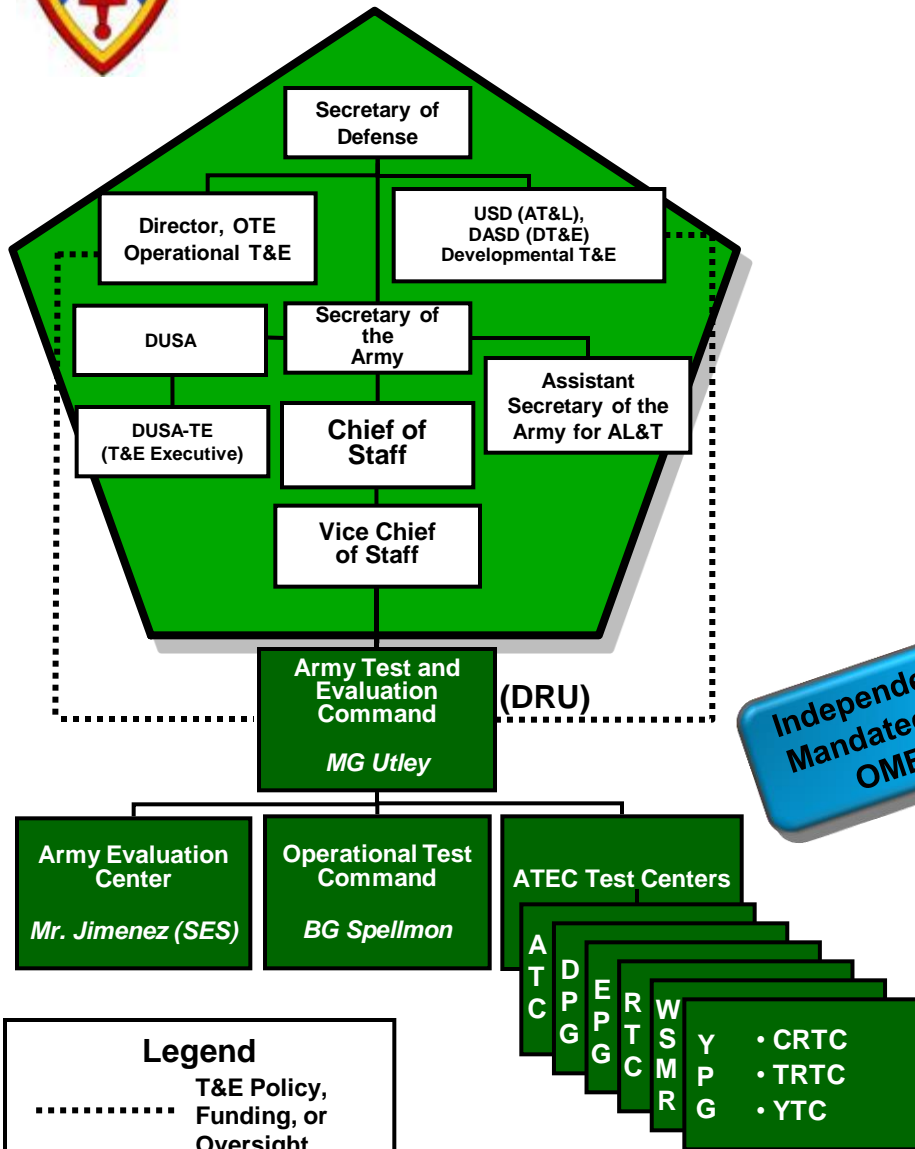
End State

The Army possesses a versatile mix of adaptable Soldiers and units equipped with proven materiel based on decisions informed by independent evaluations of technically proficient and versatile experimental, developmental, and operational tests.





How We Fit



Independent Reporting Mandated by US Code, OMB, and OSD

Why We Do It

- **General Orders No. 13, Signed CSA 16 Oct 06**
- **LAW (Section 139, Title 10, U.S. Code)**
 - Establish office of Director, Operational Test and Evaluation
 - Requires annual report to Congress for oversight systems
- **LAW (Section 2366, Title 10, U.S. Code)**
 - Live Fire Test & Evaluation
 - Requires survivability testing of major systems meant to protect their occupants
 - Requires lethality testing of munitions
 - Requires a LFT&E test report to congressional defense committees.
- **LAW (Section 2399, Title 10, U.S. Code)**
 - Defense Appropriations Act
 - Requires **independent** Initial Operational Test & Evaluation (IOTE) before proceeding beyond low-rate initial production (LRIP) for all major defense acquisition programs
 - Three qualifications - production or production-like materiel; typical users; realistic conditions
 - Limits system contractor involvement in **IOTE**
- **LAW (Section 2400, Title 10, U.S. Code)**
 - Low-Rate Initial Production (LRIP)
 - Quantities for IOTE are established by the DOT&E for oversight systems, and by OTAs for others

Legend
 T&E Policy, Funding, or Oversight

DRU – Direct Reporting Unit





Current Environment

- Defense budget uncertainty, but generally trending down
 - CRA.....again
 - OCO funding drying up
 - Budget Control Act...how long?
- Army force structure reductions accelerated
- Modernization efforts impacted – programs killed or down-scoped





Army's Task Force on Test and Evaluation Efficiencies*

Directed by VCSA

Led by Assistant Secretary of the Army for Acquisition, Logistics and Technology (ASA(ALT))

Purpose - identify opportunities to reduce program test cost without increasing program schedule or performance risk

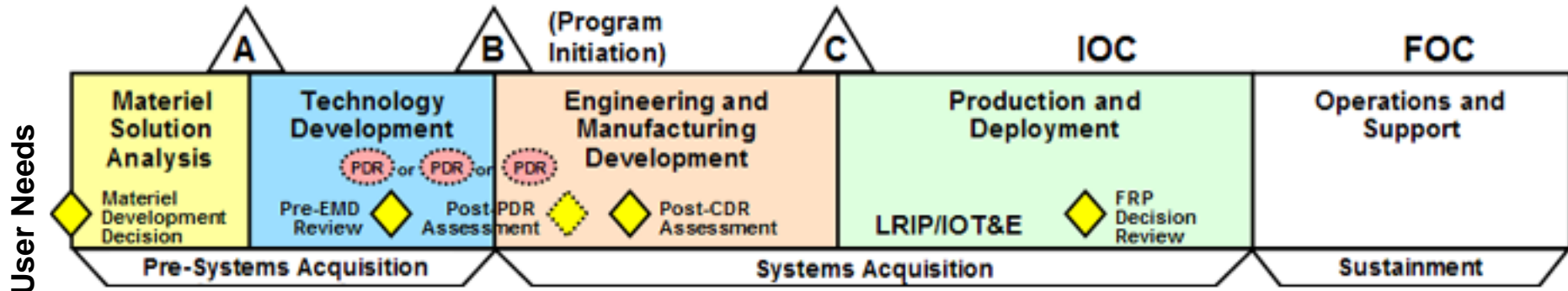
6 Key T&E Efficiency Findings:

- ❖ More Effective OIPT Oversight
- ❖ Integrate Testing to the Maximum Extent
- ❖ Maximize Use of All Available Data
- ❖ Maximize Use of Modeling & Simulation
- ❖ Ensure Timely Access to Technical Data
- ❖ Accelerate the Requirements Improvement Process





How ATEC Can Increase Value



- 1 Inform Requirements Process
- 2 Expand RDECOM Collaboration
- 3 Early Soldier Involvement
- 4 More Use of Modeling & Simulation
- 5 Discipline TEMP Process
- 6 Persistent Field Data Collection
- 7 Increase Use of Integrated Testing
- 8 Improve Collaboration of Test Results

RDECOM – Research and Development Command
 TEMP – Test and Evaluation Master Plan

Decision Point
 Milestone Review
 PDR Preliminary Design Review
 Decision Point if PDR is not conducted before Milestone B





How ATEC Can Increase Value

1 Inform Requirements Process

- Focus on needed operational capability - avoid overly prescriptive requirements
- Provide access to 50 years of data, system testing knowledge
- Emphasize the OMS/MP

2 Expand Collaboration with R&D community

- Establish culture of transparency between S&T and T&E organizations from the top down
- Leverage S&T and T&E assets pre-MS-B and during DT; \$ and technical benefits to DA/DoD





How ATEC Can Increase Value

3 Early Soldier Involvement

- MOS qualified Soldiers involved in planned developmental test events to obtain early operator insights

4 Expand Use of Modeling and Simulation

- Potential to achieve system-level reliability requirements earlier and at reduced cost
- Improve likelihood of successful live testing





How ATEC Can Increase Value

5 Discipline TEMP Process

- Crosswalk the System Evaluation Plan with the TEMP
- Maintain requirements discipline; focus on outcomes
- Bring issues to attention of senior leaders earlier

6 Persistent Field Data Collection

- Access to continuum of data from all sources
- Leverage “Black Box” technology
- Operational Feedback: Contingency Operations, Regionally Aligned Forces





How ATEC Can Increase Value

7 Increase Use of Integrated Testing

- More efficient use of resources
- Distributed approaches
- Use all available (valid) sources of data

8 Improve Collaboration of Test Results

- Regular reviews with acquisition leaders
- Focus on outcomes versus completing the event
- Ensure we are ready to pass the test





Summary

To improve acquisition outcomes, testers & evaluators need to execute the fundamentals:

- Understand system requirements in context of unit mission
- Develop evaluation strategy and supporting tests accordingly
- Learn from tests – motivate PM action to address findings
- Demonstrate technical functionality before OT
- Call it how it is!



