



Improving Requirements & Testing Process for Rapidly Fielded Unmanned Aerial Systems

Jeremy Dusina

Juan Carlos Sanchez





Outline

- **Unmanned Aircraft Systems**
 - ATEC Mission Statement
 - Test & Evaluation challenges
 - Recommendations
 - Conclusions





ISSUE

Provide the warfighter adequately tested systems with robust evaluations in a timely manner to support Rapid fielding





ATEC Mission Statement

- Facilitate equipment procurement/fielding decisions through testing and analysis to ensure our Army's Warfighters have the right capabilities for success across the entire spectrum of operations.
- **Conduct rapid testing in direct support of the GWOT warfighter, providing capabilities and limitations analyses of weapon systems to enable employment decisions for rapid fielding to the Combat Soldier.**



T&E Challenges – Rapid Fielding

- ONS lack extensive operational requirements
 - Mission not defined until system is deployed
 - Many times, difficult to quantify
- Limited test schedule and scope:
 - Use prior test data when possible
 - Leverage existing training/exercises
- Warfighters want systems because they are ‘better than nothing’
 - Must still be tested to determine capabilities and limitations of the system
- No key denominator for UAS





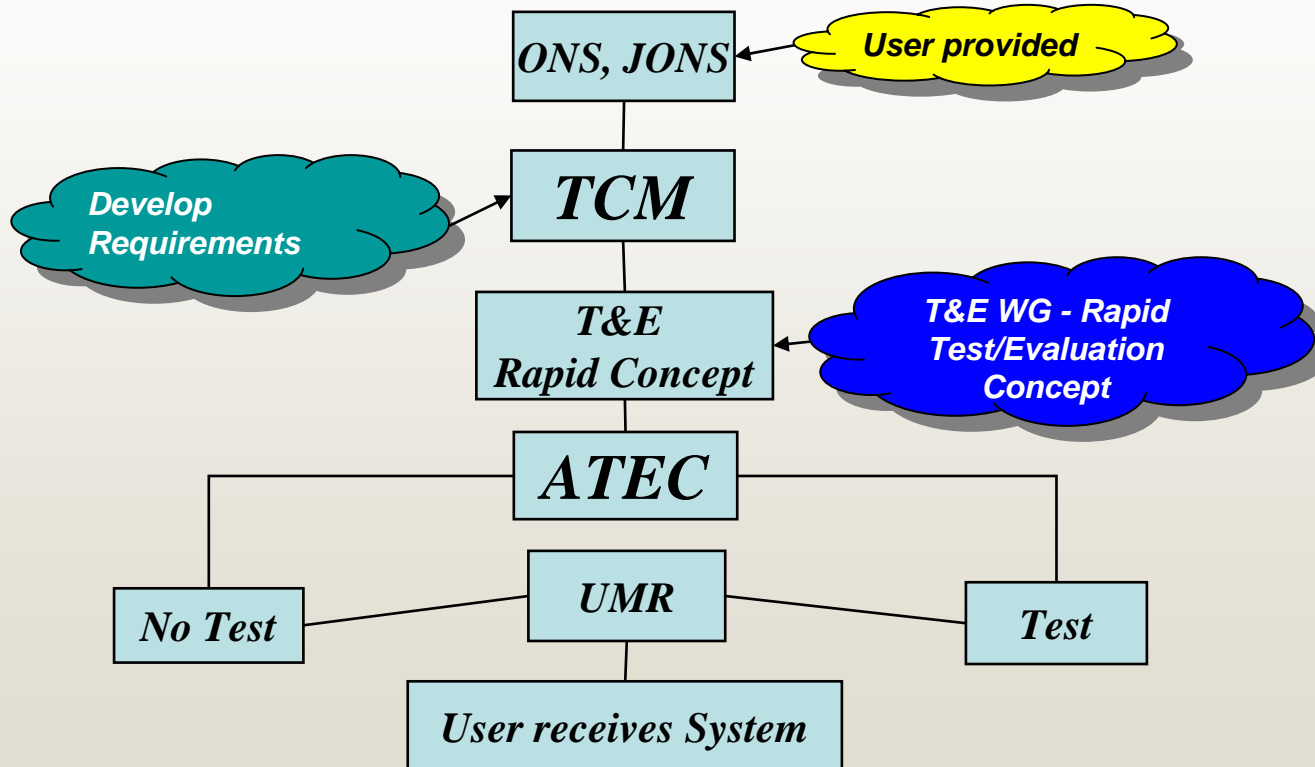
T&E Challenges – Capabilities & Limitations

- Include aviation and infantry based requirements and operations
- Must develop a robust list of capabilities and limitations of the system for the Warfighter:
 - Provides the warfighter with the intended operating envelope/environment of the system
- Rapid systems provide users with added capability
 - Do not replace/improve existing equipment
- Minimal analysis has not provided the Army a clear picture of how best to employ UAS



Recommendations

- Simplified Rapid Acquisition Process
- Must have **early** TRADOC involvement with users/units, PM, and ATEC for rapid equipping





Conclusions

- UAS is a rapidly growing field within the Army
- OIF and OEF require systems to be fielded as quick as possible to support the warfighter
- Need for improved rapid acquisition process
- T&E Community will be able to support user with a system that will better meet mission needs
- Difficult to Quantify
 - Force Multiplier
 - Situational Awareness
- Does the Warfighter need all of these systems?
- What is the key denominator?



Contact Information

- Jeremy Dusina
 - ATEC-AEC-AVED
 - Comm: (703) 681-2729
 - DSN: 761-2729
 - BB: (571) 309-9873
 - Jeremy.Dusina@us.army.mil
- Juan Carlos Sanchez
 - ATEC-AEC-AVED
 - Comm: (703) 681-2733
 - DSN: 761-2733
 - JuanCarlos.Sanchez@us.army.mil