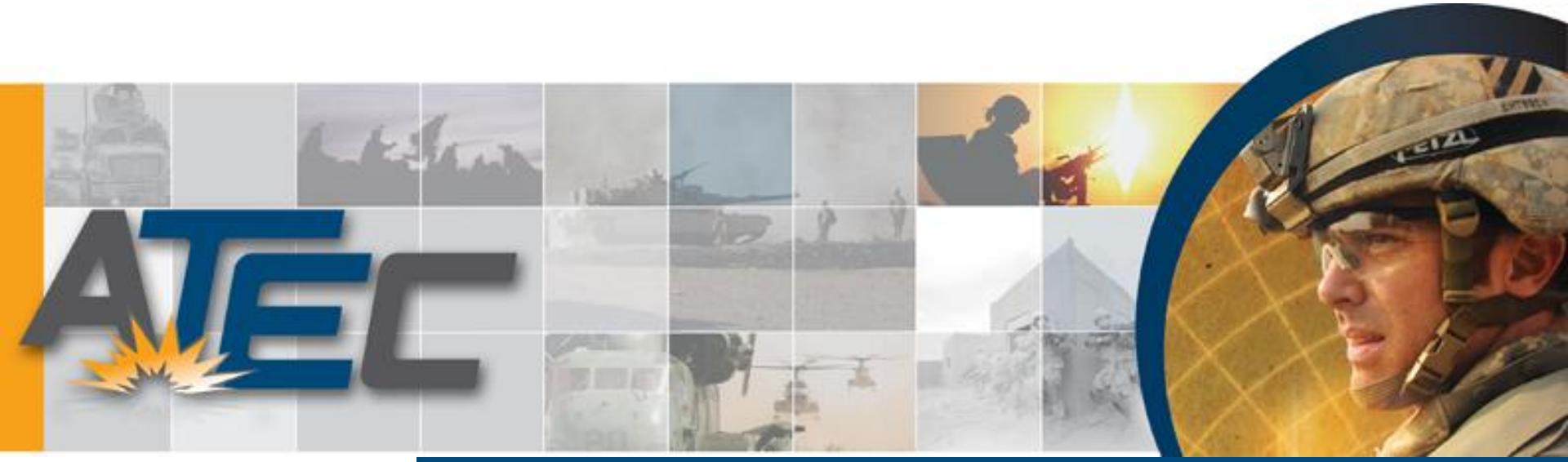
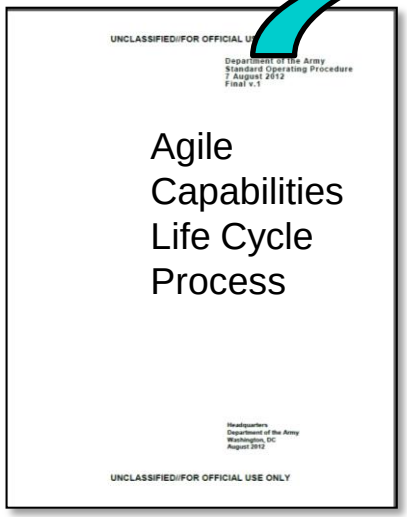
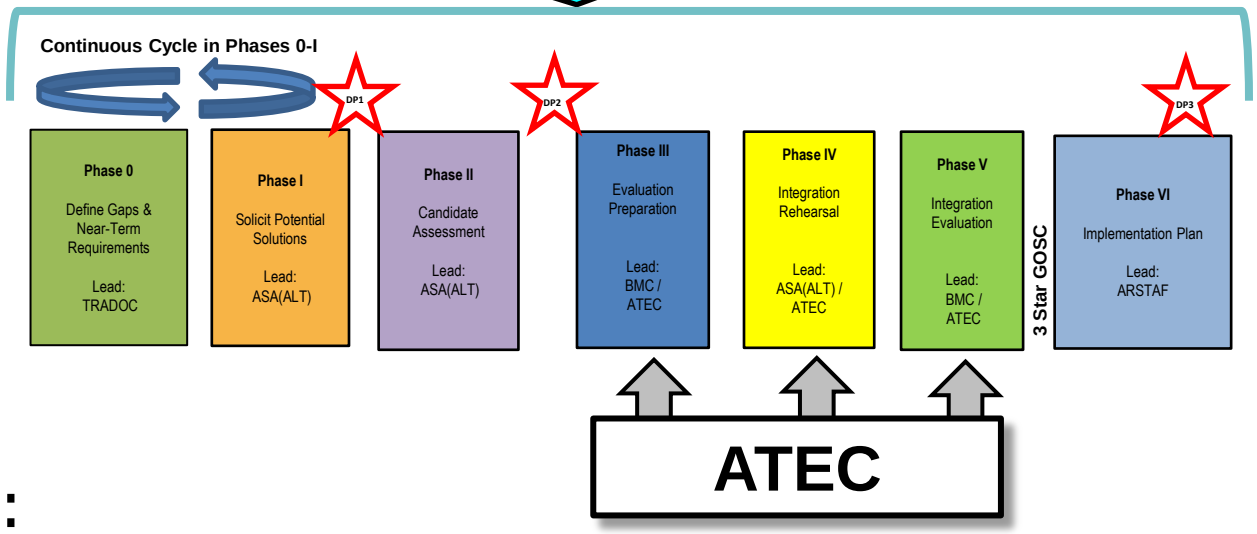


ATEC Update: NIE Evaluation and Path Ahead

Mr. Christopher M. Wilcox
Technical Director, US Army Evaluation Center
9 January 2012

ATEC and the Agile Process





ATEC role:

- Lead for Operational Testing
- Test and Evaluation of Programs of Record (SUTs)
- Capabilities and Limitations Reports (SUEs)
- Capability Set and Integrated Network Assessment
- Interoperability Assessment
- Information Assurance Assessment
- Safety Release for all systems (SUEs and SUTs)

NIE Safety Release

What is a Safety Release?

- A formal document issued by AEC prior to any "Hands On" **testing, training, or use by Soldiers**.
- Issued specifically for NIE. Previous Safety Releases will require an update.
- An understanding of the intended use, test scope, and system configuration is required.
- Indicates system is safe for use with provided operational limits and precautions.

Information Needed from PM/Developer

- **Safety Assessment Report (SAR)**
  - System description
  - System operations and hazards
  - Safety testing and results
  - Safety precautions and procedures
- Soldier maintenance responsibilities for NIE
- Operator manuals
- Reference of previous AEC Safety Releases
- Unique safety documents (MSDS, RF reports)

Process to Obtain a Safety Release

- **Initial contact with AEC Test Manager and PM/Developer**
- AEC Test Manager will assess safety requirements necessary to obtain a Safety Release with lowest risk.
  - Applicable safety testing
  - System inspection by WSMR safety team
  - Documentation
  - Intended use by Soldier
- Complete inspection and unique safety test requirements.
- AEC prepares and provides Safety Release stating risk level and identifying operational limits, restrictions, and precautions.

Key Points

- **Clear system description and understanding of how Soldier will operate** and where will be important.
- Vehicle integrations require increased safety examination and test.
- Previous Safety Releases must be updated.
- Integration of multiple SUE/SUT's on a single platform will require additional time for assessment.
- RF emitter systems will require hazard assessment.
- Early contact with AEC is important to understand and assess FULL requirements.

Results from Lessons Learned

- White Sands Missile Range (WSMR) / Ft Bliss is the central point for Network Integration Event (NIE) operations.

- ATEC expanded the fully accredited Test Support Network (TSN) at WSMR as the single test data transfer network for NIE 13.2 and beyond.

- For remote operations, tablets are used for manual data entries.

- To further expand the operational footprint, ATEC is establishing a Wireless Instrumentation Network (A-WIN) to monitor health of Instrumentation and, when possible, harvest data in near real time.

- ATEC established a Single Entry Share-point (SESP) for online data repository. SESP will be used for NIE 13.2 and beyond to store all event data.

- Wherever possible, ATEC will use a common suite of ADMAS instrumentation for NIE 14.1 and beyond.

- Integrated and Distributed T&E opportunities

Integrated & Distributed Testing

- **Integrated T&E (IT&E) is…**
  - Efficiency
  - Use of all data sources
  - Early involvement / planning
  - Reduce time for T&E
  - Increased Collaboration between all involved organizations
  - Efficient use of resources
- **Distributed T&E (DT&E) is…**
  - Effectiveness
  - Test as we fight
  - Connect from non-collocated locations
  - Demonstrate interoperability
  - Collaboration between organizations
  - Efficient use of resources
  - Distributed and remote data analysis
- **Combined Goals**:
  - Achieve more effective and efficient support to acquisition through integrated and distributed T&E
  - Effectively and efficiently evaluate systems and systems-of-systems employing integrated DT & OT in an expanded network environment
  - Potential to reduce T&E costs and time and, maximize use of resources
- **End-State**:
  - The Army Acquisition and T&E paradigm has shifted. The ATEC infrastructure/environment is in synch.