

29th Annual ITEA Symposium

“Testing at the Speed of Need”

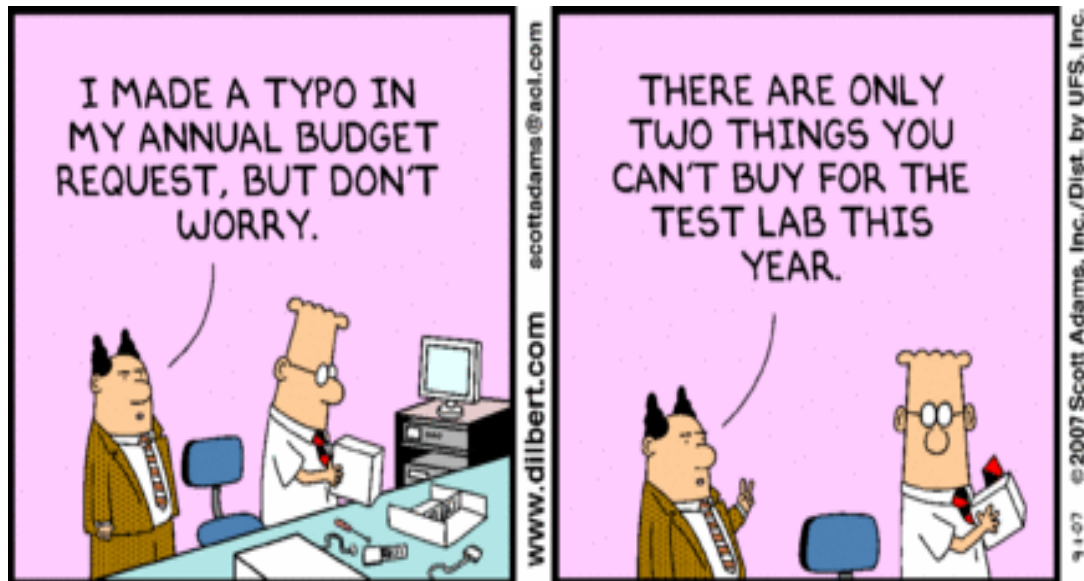


**More Rapid,
Effective and
Efficient
Test & Evaluation**

GET CONNECTED to LEARN, SHARE, AND ADVANCE.











Why this Presentation



Potential Topics for Briefing

Share your thoughts that are not only aligned with the symposium's theme "**Testing at the Speed of Need**" and the related sub-topics of our individual keynotes and panel sessions, **but also challenge our community on how we can improve the partnerships between the different industry associations (ITEA, NDIA, others).**

How can we better integrate these external technical affiliations? What can be leveraged? Where are there overlaps? **As you know, in these tough economic times, many in our industry are looking for ways to prioritize spending on external affiliation engagements.**



InsideDefense.com, June 7, 2011

INSIDEDEFENSE.COM

Exclusive news and information on national security

LOGIN

Go

NOT A SUBSCRIBER? Try our pay-per-view service, the InsideDefense.com NewsStand.

HOME NEWSLETTERS DAILY NEWS TOPICS SPECIALS DOCUMENTS BLOG INSIDER ABOUT US

Wednesday, June 08, 2011

FEATURED STORIES

Army Network Integration Exercise Acquisition Structure Begins To E

Inside the Army, June 6, 2011
Army's new strategy for bringing network solutions into the acquisition fold continues to take shape as a recent request for information stands up a new radio electronic laboratory.

Raytheon Developing Launch Capabilities Of Aircraft

DOD: Weapons Testing Not Responsible For Cost Growth, Schedule Delays

Defense Media, June 7, 2011 - The Pentagon's decision to test and evaluate weapons

The Pentagon's rigorous testing and evaluation of new weapon systems is not a source of "excessive" cost growth and schedule delays, two separate Pentagon-commissioned investigations have concluded -- findings that run sharply counter to claims made by some program managers who say testing increases costs and delays projects.

integrated ISR investment strategy, which congressional investigators say the department has failed to include in recent reports to lawmakers.

DOCUMENT: GAO Report

Free Trial

Sign up for one month of free, no-obligation access to InsideDefense.com.

FREE TRIAL

INSIDER

guide to the latest news on DOD testing, plus the latest in JLTV and much more.

Join Insider

FEATURED NEWSLETTER



T&E Collaboration has Worked

- 1. Updated/Enhanced TEMP Outline/Guidance**
- 2. Defense Acquisition Guidebook T&E Section updates/enhancements**
- 3. Integrated Testing / Title 10 tutorial**
 - And an ITEA Journal Article
- 4. To be available soon**
 - Early T&E White Paper from the ICOTE



NDIA Mission & Members

- **ADVOCATE:** Cutting-edge technology and superior weapons, equipment, training, and support for the War-Fighter and First Responder
- **PROMOTE:** A vigorous, responsive, Government – Industry National Security Team
- **PROVIDE:** A legal and ethical forum for exchange of information between Industry and Government on National Security issues

NDIA provides individuals from academia, government, the military services, small businesses, prime contractors, and the international community, the opportunity to network effectively with the government-industry team, keep abreast of the latest in technology developments, and address and influence issues as well as government policies critical to the health of the defense industry and the preservation of our national security.



ITEA Vision & Mission

For over thirty years the International Test and Evaluation Association (ITEA), a 501(c)(3) not-for-profit education organization, has been advancing the exchange of technical, programmatic, and acquisition information among the test and evaluation community. **ITEA members come together to learn and share with others from industry, government, and academia**, who are involved with the development and application of the policies and techniques used to assess effectiveness, reliability, interoperability, and safety of existing, legacy, and future technology-based weapon and non-weapon systems and products throughout their lifecycle.

ITEA members embody a broad and diverse set of knowledge, skills, and abilities that span the full spectrum of the test and evaluation profession. All of which is shared with others through the ITEA Journal--the industry's premier technical publication for the professional tester--and at ITEA's Annual Symposium, regional workshops, education courses, and local Chapter events.



Different Opportunities for Conferences & Symposiums

ITEA & NDIA

- **Different kind of Conference/Symposium Structure**
 - Number of and frequency of event
 - Integrate Chapter/Regional events via video with the key T&E Personnel from Government and Industry – like:
 - Leadership Summit
 - STAR Conferences
 - Provide tutorials and tracks but would require less travel
 - Work together to focus topics on different but related topics
 - There are many more approaches that could provide better coverage at a lower cost



Collaborate to Make T&E More Effective and Efficient

Four Key Items:

- 1. Early T&E Involvement**
- 2. Improved T&E Skills/Skilled Workforce**
- 3. Tools and Automation**
- 4. Contractual/Working Environments**



Collaborate to Make T&E More Effective and Efficient

Four Key Items:

1. Early T&E Involvement

- At the start of the Acquisition process for Government and support T&E personnel
- In proposals and programs for Contractor personnel
- In TD and EMD phases for both Government & Contractor Personnel
- Must include support for proper integration and verification
- ICOTE White paper should be delivered in a couple weeks



Collaborate to Make T&E More Effective and Efficient

Four Key Items:

2. Improved T&E Skills/Skilled Workforce

- Minimal training in integration testing and verification of software and software intensive systems
- Generally no integration and test course requirements at the undergrad level (things are changing but not fast)
- How about “Training at the Speed of Need” with a delivery model that is more affordable



Collaborate to Make T&E More Effective and Efficient

Four Key Items:

3. Tools and Automation

- Programs still run many manual tests especially regression testing at the system level of software intensive systems.
 - Automation will allow increased test coverage
- Adopt the new (yet to be implemented) OMG Test Information Interchange Standard
 - Goal - Different vendors tools connected together



Collaborate to Make T&E More Effective and Efficient

Four Key Items:

4. Contractual/Working Environments

- On many programs there are several teams/organizations involved in testing
- These participants typically grow in numbers in later phases
 - Resulting in long meetings/discussions about how best to sell off a requirement.
- The effect of this is to generally end up with very low test coverage and escapes into DT & OT phases



Wrap-Up

- **Must do more than talk – let’s use ITEA, NDIA, etc to continue the collaboration**
- **Work to implement:**
 - Early T&E
 - An timely, effective, and affordable T&E skills development methodology
 - Much more automation used by T&E professionals
 - Change the T&E working culture/contractual arrangements

These help get T&E to “Testing at the Speed of Need”



Questions?