

Information Systems Summit II (ISS II)

sponsored by

C4ISR Division

Baltimore, Md
April 4-6, 2011



ISS II Introduction

Hyatt Regency Baltimore, Md
April 4-6, 2011

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ISS II Program Summary

- Commercial Experience with Agile Software Development & Test
- Information Sharing, Assurance and User expectations
- IT policy, management and CIO imperatives to deliver Information System solutions



ISS History

ISS I convened Jan 2009

Improving Defense
Information System
(IS)

Acquisition:

Testing IS Capability in a Network Enterprise



DOD IT is a National “Asset”

- National security industrial base key components
 - C4 (decision support, command execution, information-sharing, connectivity, and situational understanding)
 - ISR (means and tools which generate the data)
 - IT (provides infrastructure and support)
- Directly tied to war fighting
 - Defend the networks and systems
 - Attack our enemies networks and systems
- Network-enabled C4ISR/IT capabilities
 - On the ground situational awareness
 - Enhances our warfighting capabilities



Stakeholder Recommendations

- **Defense Science Board**
 - **Developmental Test and Evaluation, May 2008**
 - **DOD Policies and Procedures for the Acquisition of Information Technology, March 2009**
- **2010 National Defense Authorization Act (Sec 804)**
 - **Implementation of a New Acquisition Process for Information Technology Systems**
- **NDIA-OUSD (AT&L) System Engineering Division/Development T&E Committee and Software Industry Experts**
 - **Software T&E Summit/Workshop September 2009**
 - **Joint Authored White Paper, Dec 2009**
- **National Academies of Science Study**
 - **Achieving Effective Acquisition of Information Technology in the Department of Defense, December 2009**



New Emerging DOD IT Landscape

- **804 Compliance:** FY2010 National Defense Authorization Act, Section 804
 - New IT system acquisition process required
 - Multiple rapid capability increment
 - Early prototyping for evolutionary approach

- Early & continual user involvement
- Multiple, rapidly executed capability increments or releases
- Early, successive prototyping to support evolutionary approach
- Modular, open-systems approach



DOD Agile IT Precepts

- 1) achieve significant time and cost resource efficiencies**
- 2) support software application “sprints”**
- 3) provide tailored test environments established on demand**
- 4) create a virtual library of systems and services to avoid having to stand up physical systems for every test**
- 5) establish a DOD wide accepted restructured IT T&E process**



DOD Agile IT Challenges

- Incremental Requirements (IT Box)
- Incremental Budgets
- Iterative S&T Investments
- Iterative Systems Engineering

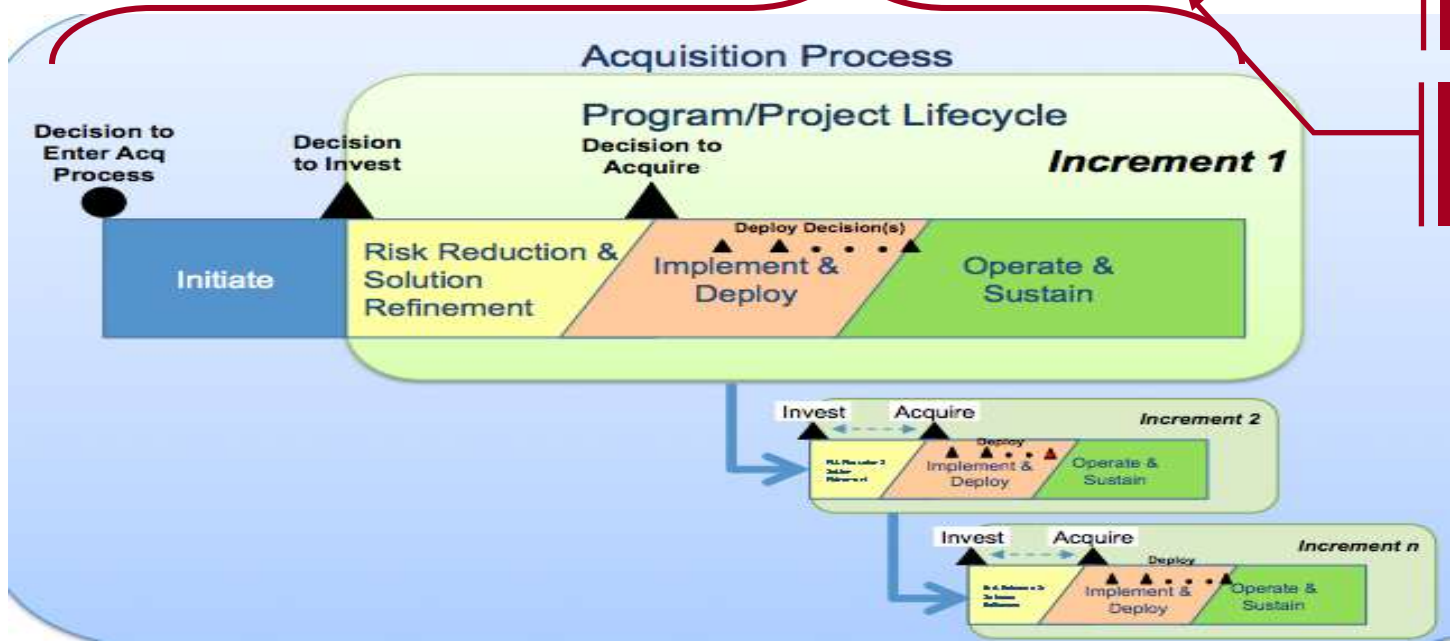
FRCB ??

Testing ??

C&A ??

Contract Language?

Warfighter Feedback?



Closing Comments

- **IT systems are different than weapons systems...current DOD 5000 inappropriate for both**
- **DOD agile developed IT systems/applications are on the horizon.....IT “sprints” projects will cause closer collaboration between users, developers and testers**
- **Serial or “soda straw” T&E to migrate towards –**
 - **parallel acceptance, certification, accreditation, interoperability and integration**
 - **test once, accept by all.**



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