

Information Systems Summit II (ISS II)

sponsored by

C4ISR Division

Baltimore, Md April 4-6, 2011



Information System Summit II April 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





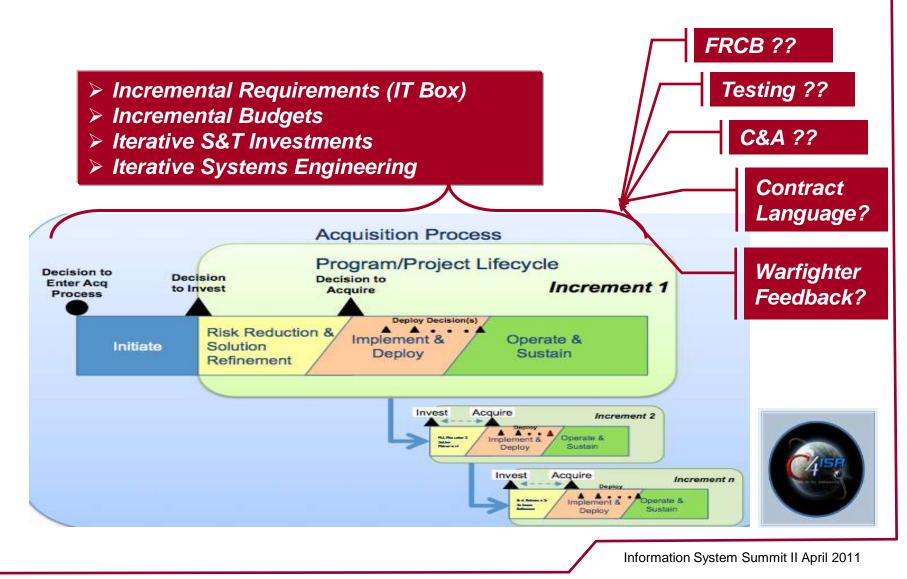
DOD Agile IT Precepts

- 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





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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