

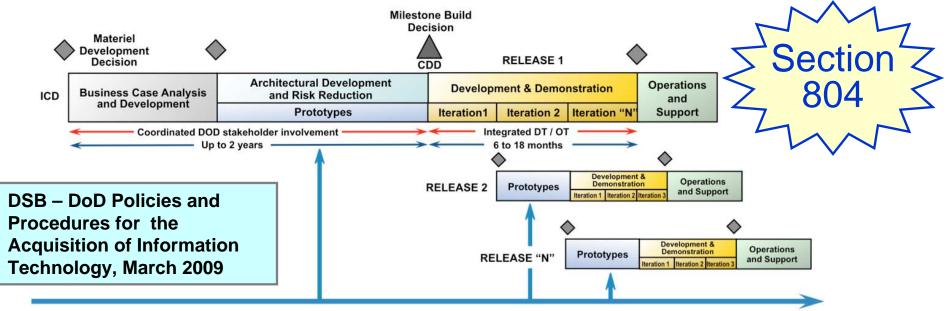
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Test and Evaluation for Agile Information Technologies

Dr. Steven Hutchison DISA Test & Evaluation Executive May 12, 2010

New DoD Acquisition Process for IT

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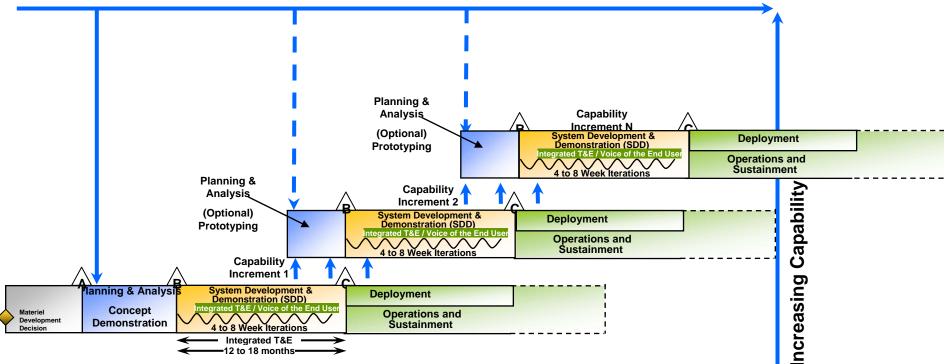


Continuous Technology/Requirements Development & Maturation

- Modeled on successful commercial practices
 - Agile software Development
- Multiple, rapidly executed increments or releases of capability
 - Releases divided into ~6 month iterations
 - Iterations tested and potentially deployable
- Early and continual involvement of the user
- Integrated testing

DISA National Academies Proposed Model

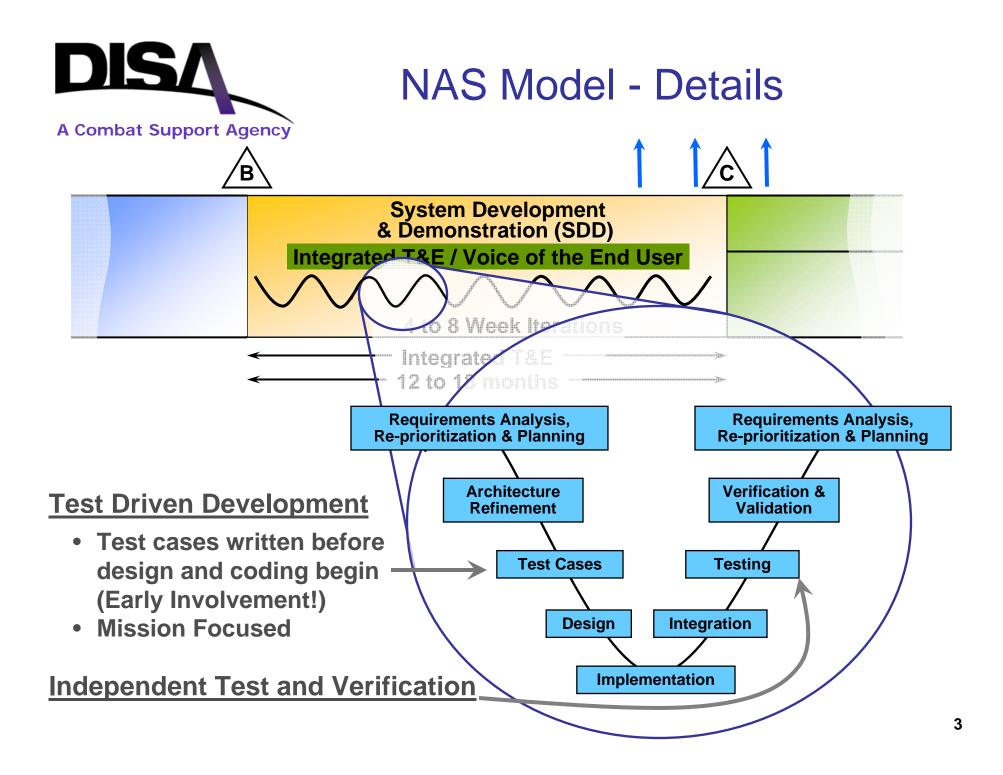
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Marketplace Technology Development & Maturation

Acquisition Management Approach for Software Development and Commercial off-the-shelf (COTS) software Integration IT programs

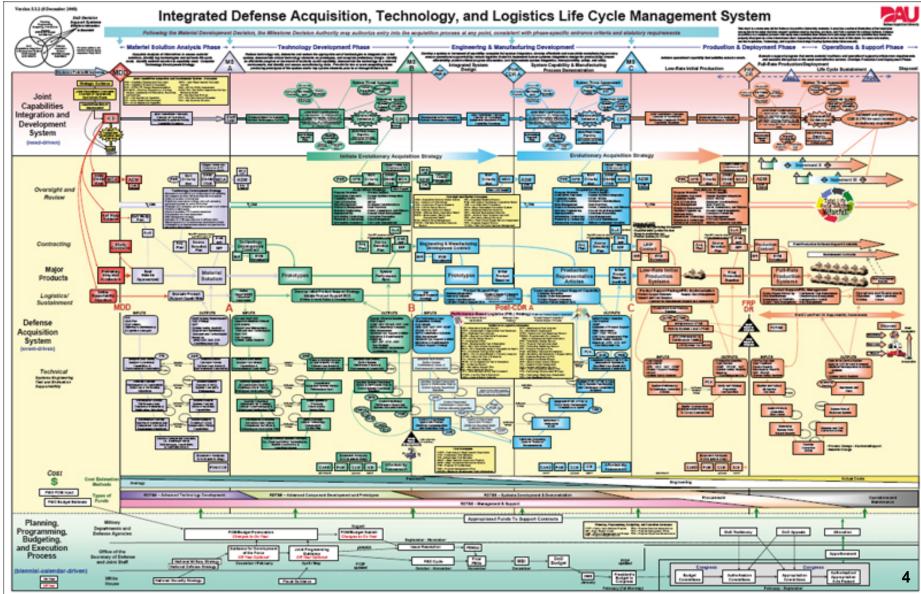
National Academy of Sciences: Achieving Effective Acquisition of Information Technology in the Department of Defense, December 2009





The DoD Acquisition Model

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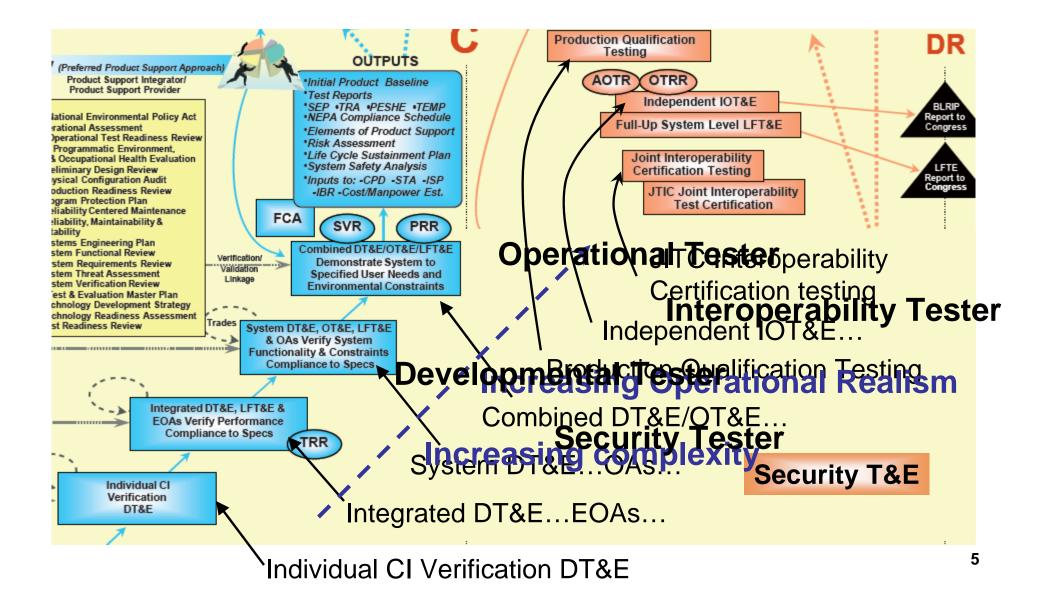


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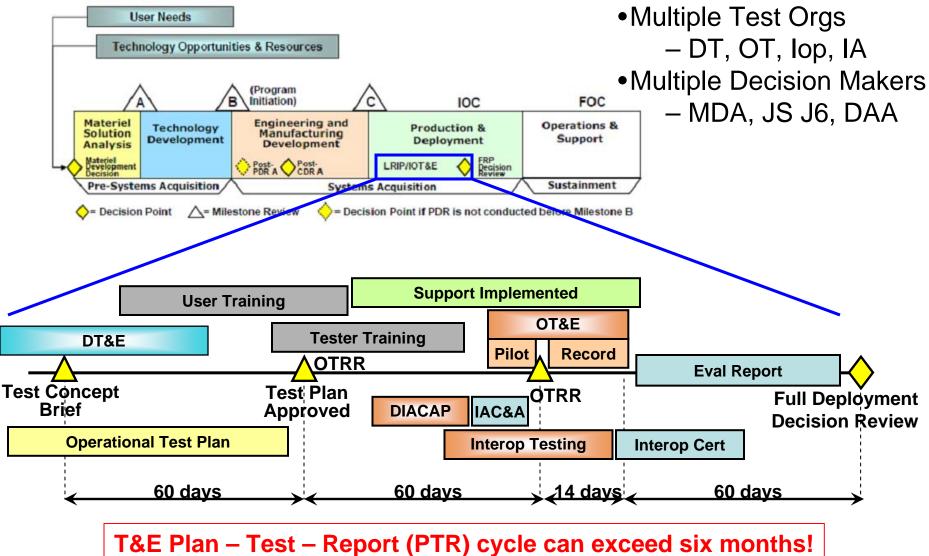
T&E in Acquisition Lifecycle

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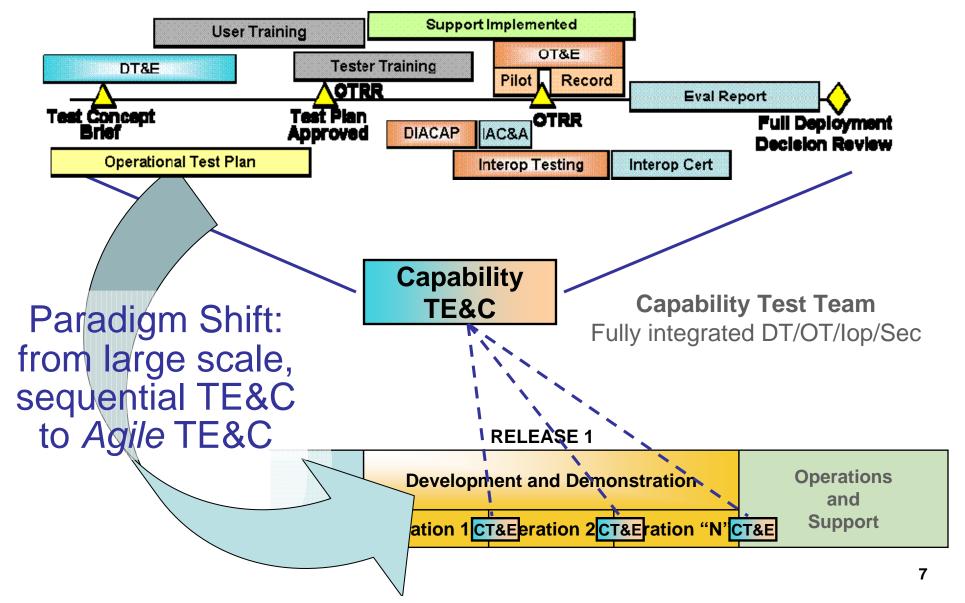


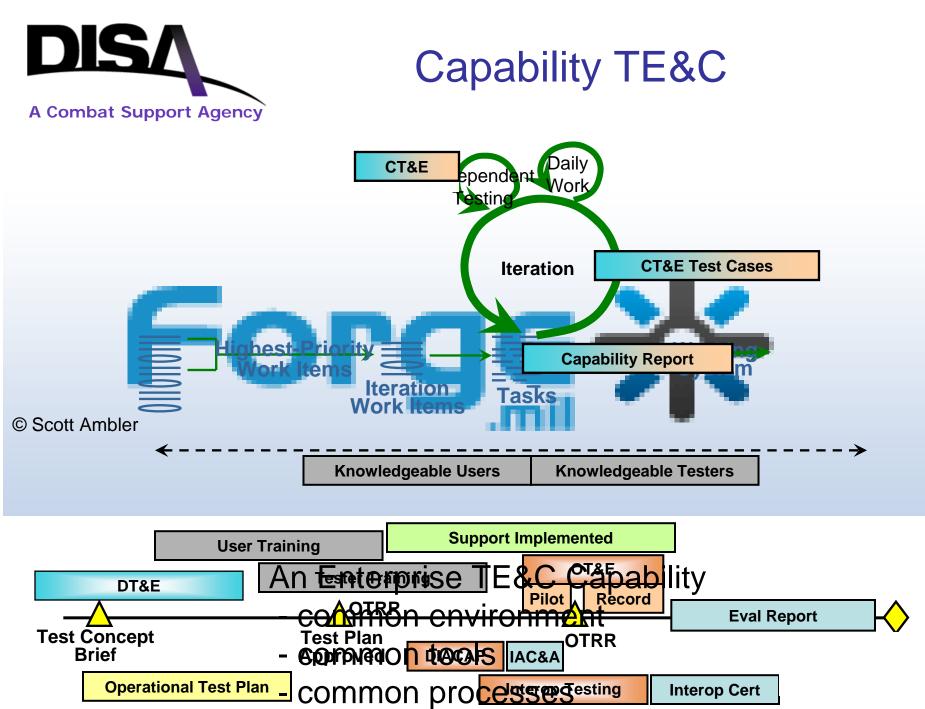
DISA DoD Test, Evaluation & Certification

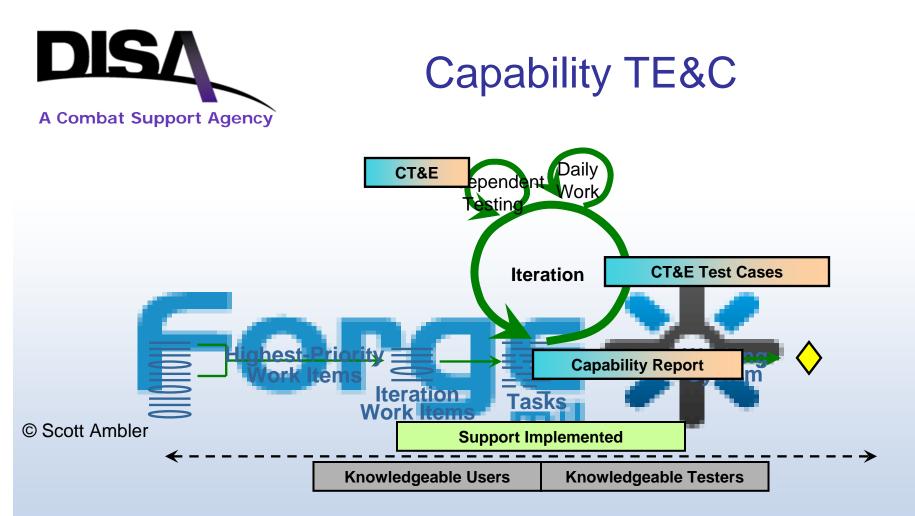
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- Responsible Test Organization – Coordinates test assets
- Empowered Capability Test Team – Executes testing
- Ready access to knowledgeable users
- Automation essential!

- Rapid Plan Test Report Cycle
 - Risk based; mission focused
 - Relevant critical technical parameters
 - Relevant key performance parameters
 - Relevant interoperability measures
 - Relevant security measures



Summary

- New IT Acquisition model is coming
- TE&C processes must adapt
 - Responsive to iterative, incremental development
 - Responsive to User priorities
 - Lean processes!
 - High optempo
- Dramatically reduced TE&C timelines
- Objective: Rapid fielding of enhanced IT capabilities to the Warfighter

