



# ITEA Panel

## *Testing at the Need of Speed: Agile Development*

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# DoD Information Capability Demands

*Innovation | Agility | Results*



**Reduced costs** for data centers and applications



**Improved interoperability** for better coordination and collaboration



**Improved user satisfaction** and **mission success**



**Faster, more responsive** capability deliveries to **Warfighters**



**Improved security** to reduce cyber threats



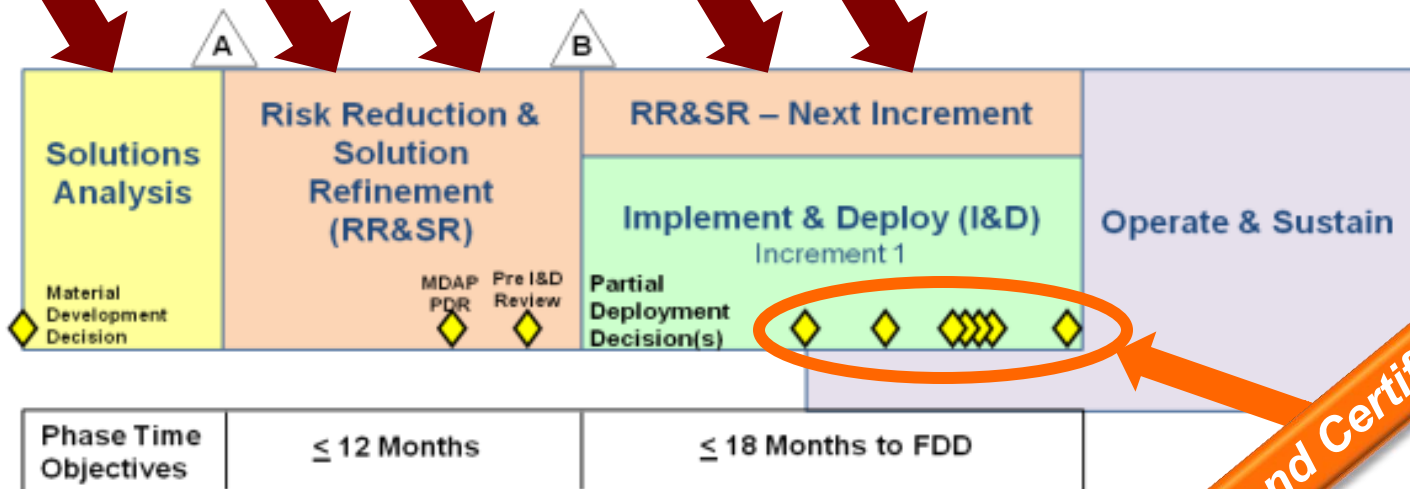
**Faster adoption** of commercial IT breakthroughs



# Information Capabilities Perspective Accelerating Innovation, Testing and Fielding

Innovation | Agility | Results

## Prioritized Requirements—Technology Opportunities--Warfighter Engagement



Testing and Certification??

- Conduct *Product Line Architecture*-based development with integrated T&E and certification
- Federate a *persistent test environment* – labs/ranges with certification authorities
- Focus on *integrated mission capabilities* rather than individual systems
- *Hardwire in the “voice-of-the-warfighter”*...

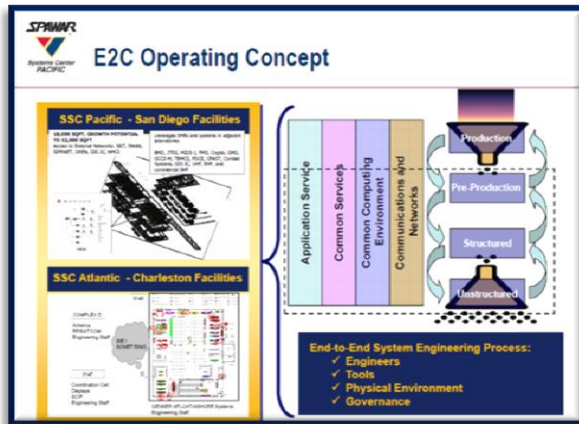




# Operational Integration Activities

Innovation | Agility | Results

- **Timely:** Informs Requirements and provides pre-acquisition risk reduction to deliver the right capabilities more rapidly
- **Operational Feedback:** Allows developers to understand and resolve integration and interoperability issues before HW/SW is delivered to Marines in the field
- **Business Implications:** Encourages industry to adjust business practices to support Product Line Architecture-based capabilities



**Examples:** - Army Network Integration Evaluations (NIE)  
- Navy Enterprise Engineering & Certification (E2C)  
- USMC Field User Evaluations (FUEs)