



---

## CALL FOR PRESENTATIONS

### Agile in Government

May 8-9 • Kellogg Conference Center • Gallaudet University • Washington, DC

Theme: Integrating Agile into Government Business Practices

This annual event is organized by the ADAPT working group, in partnership with the Carnegie Mellon University Software Engineering Institute with the purpose of giving experts a platform to address the practical adaptations necessary to make Government organizations more agile.

This year the theme of the event is *Integrating Agile into Government Business Practices*. Government needs to respond to changes in environments that affect its ability to accomplish its mission, whether it is acquisition of capabilities or service to customers.

For the military, the pace of change for mission need has accelerated. Near peer adversaries now field capabilities faster than the US. The rapidly changing and adapting threat forces the defense agencies to accelerate their processes to counter to maintain their technological edge.

Across government, military and civilian, the rapid evolution of information technology has sparked a digital transformation in how government employs IT across all its business and organizational activities and processes. Whether it is Cloud First or cybersecurity, digital transformation is fully leveraging the changes and opportunities now possible with a mix of digital technologies and their accelerating impact.

Similarly, Industry 4.0 represents the fourth industrial revolution in manufacturing and industry and is the digital transformation that is based on automation, data exchanges, cloud, cyber-physical systems, robots, big data, artificial intelligence, learning systems, IoT and autonomy. Today we understand that smart organizations – government and industry – are operating at intersection of people, new technologies and innovation.

The challenges are adopting agile at scale for programs, portfolios and agencies; creating cross-functional agile teams; scaling needs when agile principles are applied to business operations; governance in modular, incremental and iterative situations; agile for hardware; contracting, performance measurement and reporting.

We invite high-quality, professional presentations that reflect the theme and address the focus areas being featured in the event. Selected presentations will reflect the successes, and challenges, that organizations are experiencing and the impact agile is having on government.

#### PRESENTATION TOPICS

Presentations will be considered from business and Government that address the following topics:

##### **Agile and Cybersecurity**

This session addresses how agile principles or DevOps can be applied to acquiring and evolving cyber capabilities to keep up with the rapidly changing threat. Compliance with NIST 800-171 and assurance of adequate security is compounded by the acceleration of change. Presentations will address various perspectives on agile cybersecurity. High assurance



applications are of great interest. Examples are medical devices, highly regulated industries, or mission-critical systems impacting flight worthiness, or autonomous vehicles.

### **DevSecOps for Government – Case Studies and Approaches**

DevSecOps (combining Security with DevOps) is becoming increasingly important as Government strives for improvements both in acquisition speed and data protection. Presentations are sought that address the concepts, challenges and successful practices of implementing a secure DevOps process. Pros, cons, case studies and challenges surrounding application of DevSecOps in Government organizations are welcome.

### **Discussing Your Challenges**

Presentations are invited in which programs, projects and practitioners bring their challenges to the conference seeking input from the audience on best practices – successes and failures. These presentations can be short descriptions of current problems with an ask of the audience for input, recommendations and suggestions.

### **Applying Agile Principles to Hardware**

What do John Deere, CubeSat, and WikiSpeed have in common? They apply agile principles to hardware. This session invites case studies on how agile principles are applied to hardware, and the associated challenges of using agile in different environments and processes.

### **Business Agility**

This topic area explores coordination, collaboration, and potential scaling needs when agile principles are applied to business operations. When should one expand the use of Agile beyond small teams, and how? Experiential reports, case studies, and overall formation on frameworks, processes, and governance to scale agile are requested.

### **Agile Architecture**

Agile architecture refers to both the use of agile methods in developing architectures of various types and levels (enterprise, solution, data, etc.) as well as the architecture necessary to integrate multiple activities for agile development on a large scale. This session will address both perspectives of agile architecture and will provide insights from projects applying the concepts. Attendees will learn to appreciate the mutually reinforcing roles of architecture and agility.

### **Digital Transformation**

Digital transformation is driven by automation, data exchanges, cloud, cyber-physical systems, robots, big data, artificial intelligence, learning systems, IoT and autonomy. Presentations in the topic area will address how agile, lean and DevOps are contributing the pace of change at the intersection of people, new technologies and innovation.

### **Agile in High Assurance Applications**

High assurance systems are those which must have a high reliability, because failure leads to unacceptable consequences. Examples are medical devices, highly regulated industries, or mission-critical systems. This session addresses application of agile in systems developed for high-assurance environments.

### **Contracting Case Studies**

Should contracts for employing Agile methods be structured differently than those used in traditional waterfall processes? Who should the product owner be and what drives application



of agile – the proposal or the RFP? This session is looking for tips and lessons learned on how to successfully address agile within legacy contract mods, or new contracts, and case studies for reviews, deliverables, and reporting to include EVM. Presentations may address RFP and contract language, clauses and deliverables. Topics including design reviews, deliverables, and government-contractor governance roles are encouraged.

### **Iterative Development and Model-Based Systems Engineering (MBSE)**

On large-scale federal projects collaboration and the consistent use of designs across multiple teams and contractors are critical to success. MBSE provides a platform to enable business analysts to collaborate with developers to produce precise, consistent design specifications that can derivative development automation and higher quality on a fast turnaround basis. This session will highlight current programs applying MBSE as well as recent advances in the state of the art.

### **Agile and Lean**

The application of lean start-up principles to the adoption of agile practices is an emerging area. This session will highlight the application of lean startup as well as recent advances in the state of the art.

### **ABSTRACT TIMELINE**

**March 1**      **Deadline for Abstracts**  
**March 4-8**    **Abstract Selection**  
**March 11**    **Abstract Presenters Notified**

Abstracts must be submitted electronically at the following link:  
<http://application.ndia.org/abstracts/9a01>.

Selection of abstracts for presentation will be made by the program committee. Submitters will be notified by email on **March 11**. Abstracts not selected for this event may be identified for presentation in future ADAPT events.

As a part of the submission please provide a short synopsis that will be used in the program should your abstract be accepted.

### **ATTENDANCE**

Speakers whose abstracts are selected for presentation may attend the conference at no charge for the day of their presentation. Visit the website for more attendance details:  
<http://www.ndia.org/events/2019/5/8/agile-in-government/registration>.

### **SPONSORSHIP**

Sponsorship opportunities are available. Sponsors have logos on materials, display tables and opportunity to speak during Lunchtime Lightning Rounds. For more information contact Carol Dwyer, [cdwyer@ndia.org](mailto:cdwyer@ndia.org).

### **QUESTIONS, CONTACT:**

Carol Dwyer  
EMAIL: [cdwyer@ndia.org](mailto:cdwyer@ndia.org)