A Case Study: Experiences with Agile and Lean Principles

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Agenda

• Background
• Landscape
• Observations
• Conclusion
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Background
Critical Federal IT System

This case study tells the story of the development of a critical IT system within a department of the U.S. federal government.
Agile and Lean Methods

This study focuses on the successes and challenges resulting from applying Agile and Lean methods in a government software development environment.
Research

The study is based on interviews, observations, documentation, program guidance, and examination of work products.
Sharing Experiences

The case study is presented so that other government entities can benefit from the implementation experiences. Additionally, other types of entities may also benefit.
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Landscape
Outsourcing Paradigm

Department Omega

Development Contractor

Testing Contractor

IT Project

Participation → Contractual Relationship
Government as the Integrator

Department Omega

- Advising/IV&V Contractor
- Development Contractor
- Testing Contractor

IT Project

→ Participation

→ Contractual Relationship
Tele-presence
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Observations
Cloud Development
Requirements
Acceptance Testing

- Business Owners
- User Stories
- Test Scripts
- Pipeline
Estimation
Risk Management
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Conclusion
## Summary

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Questions