Collaboration Over Competition
Open Source Agile Development for ISR

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Agile Software Development
- Offices in Phoenix (HQ), Denver, Boston, DC

History of performance in government space
- TS/SCI Cleared, full-stack software developers

Committed to Open Source and Open Development
- Delivers the Distributed Data Framework ecosystem
Nothing beats an Agile Team

» Cross-functional, self-organizing entities that can define, build and test a thing of value

» Applies basic scientific practice: Plan—Do—Check—Adjust

» Delivers value frequently
Business results

- 10 – 50% happier, more motivated employees
- 30 – 75% faster time-to-market
- 20 – 50% increase in productivity
- 25 – 75% defect reduction

See ScaledAgileFramework.com/case-studies
Connexta Agile Development

**Process**
- Extreme Programming
- Scrum
- SAFe
- Kanban
- Kessel Run Way

**Best Practices**
- Stand-ups
- Retrospective
- Pair Programming
- Test Driven Development
- Automated testing
- Continuous Integration
- Refactoring
- Loose Coupling
- Security

**Principles**
- Lean
- Teamwork
- Collaboration
- Flexibility
- User-focus
- Small teams
- Business Value Driven
- Simplicity
- Feedback
- Effective Communication

**Values**
- Trust
- Innovative
- Courage
- Honesty
- Accountability
- Empowerment
- Self-Organization
Open Source for Collaboration

Who Uses Open Source?

Benefits of Open source for Government use
- Flexibility, Adoption, Support Innovation, Reuse, Quality

Challenges
- Sponsorship and maturity
- Security

Open Source Development with Government Leadership

**Government Role**

- Provide prioritization
  - Sponsored development
  - User centric design coordination
- Establish program vision
- Stakeholder communication
- Resourcing

**Developers Role**

- Provide input for Government vision
- Architectural design
- Evaluation of technical solution
- Provide agile development best practice guidance
- Develop software
Capabilities Flow Downstream

Free and Open Source

DDFo
Distributed Data Framework

Free and Open Source

ALLIANCE
ISR-focused

Coalition(s)

US only

Additional Open Source Projects

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Contributions Flow Upstream When Possible

- Free and Open Source
  - Distributed Data Framework (DDF)
  - Alliance (ISR-focused)
  - Additional Open Source Projects
  - Coalition(s)
    - US only

Member Organizations:
- [Member Organization 1]
- [Member Organization 2]
- [Member Organization 3]
- [Member Organization 4]
- [Member Organization 5]
Meeting the Challenges with Open Source and Open Development

Government

» Government Unlimited Rights

» Establish modular, agile processes, open architecture, and standards

» Promote collaboration & contribution
  ▪ Projects
  ▪ Bug reports
  ▪ Documentation
  ▪ Feature requests
  ▪ Sponsored development of new capabilities

Contractors & Developers

» Understand and promote Open Source & Open Development

» Build and demonstrate merit

» Offer and leverage Unlimited Rights
Open Source Software is a successful model, even in ISR

Agile methods promote transparency and collaboration

Collaboration over competition leads to collective success
Thank You.

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