

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

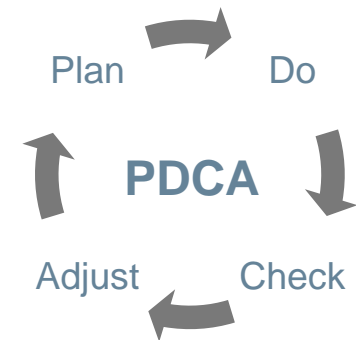
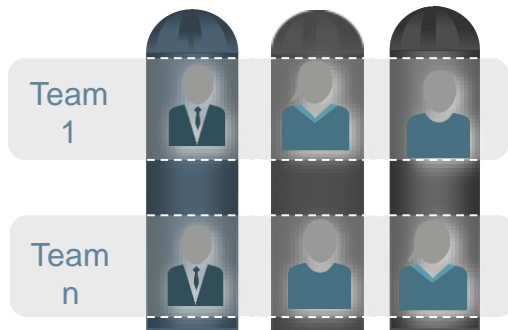
» Committed to Open Source and Open Development

- 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

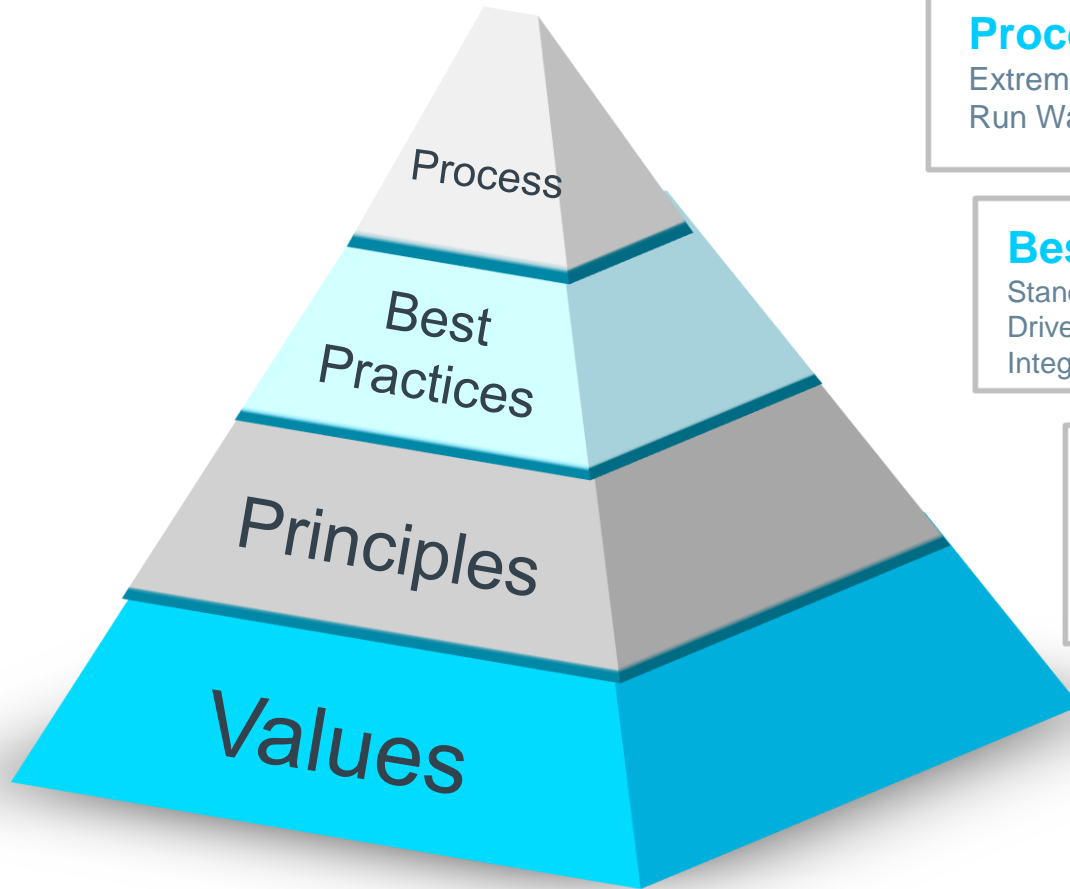


Business results



See ScaledAgileFramework.com/case-studies

Connexa 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

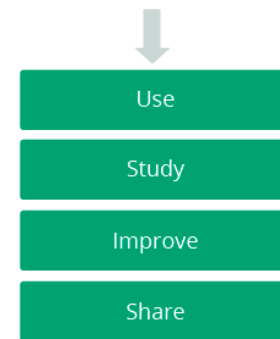
» Who Uses Open Source?

» Benefits of Open source for Government use

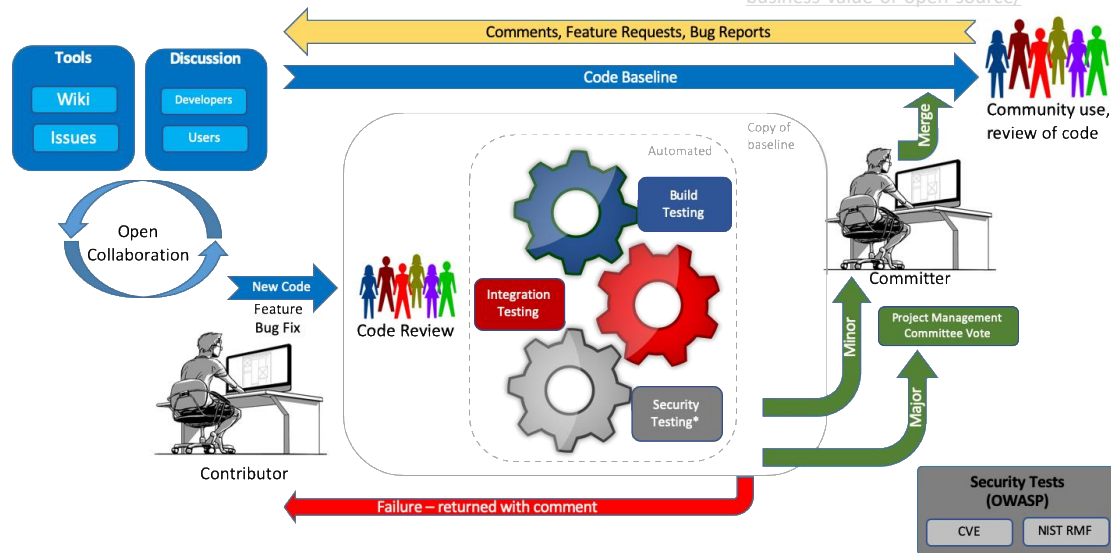
- Flexibility, Adoption, Support Innovation, Reuse, Quality

» Challenges

- Sponsorship and maturity
- Security



<https://wso2.com/whitepapers/the-business-value-of-open-source/>



Open Source Development with Government Leadership

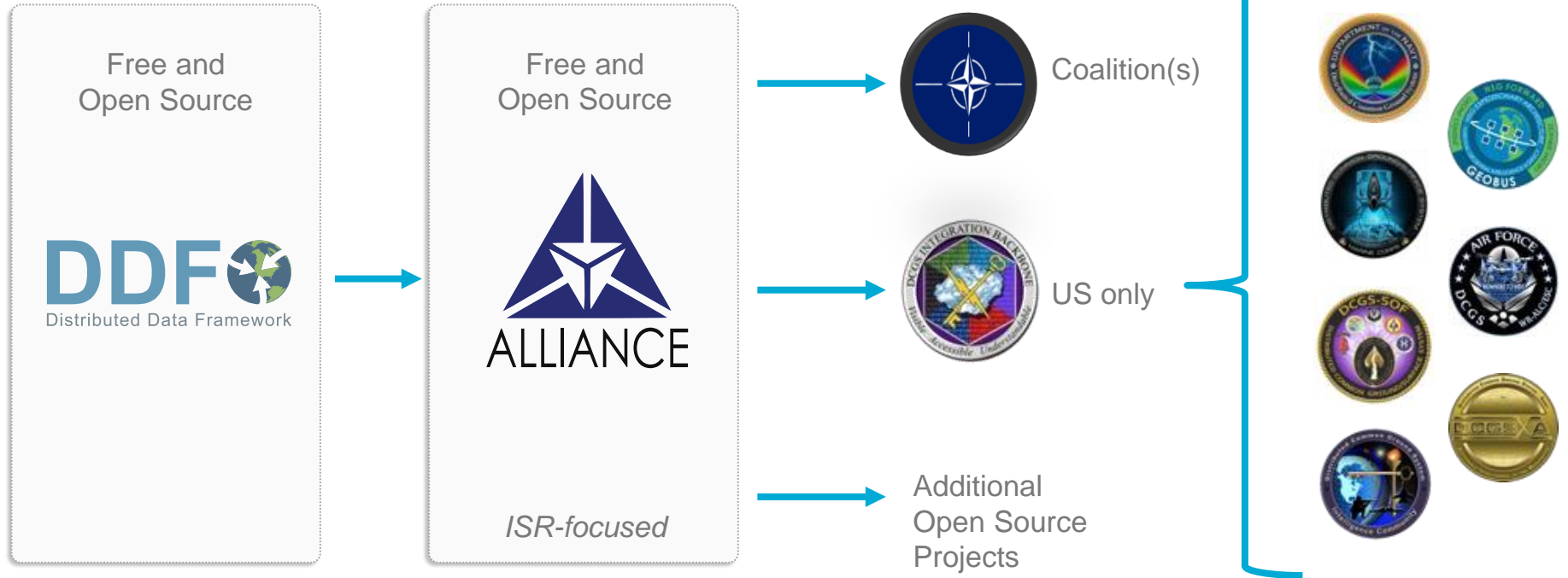
Government Role

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

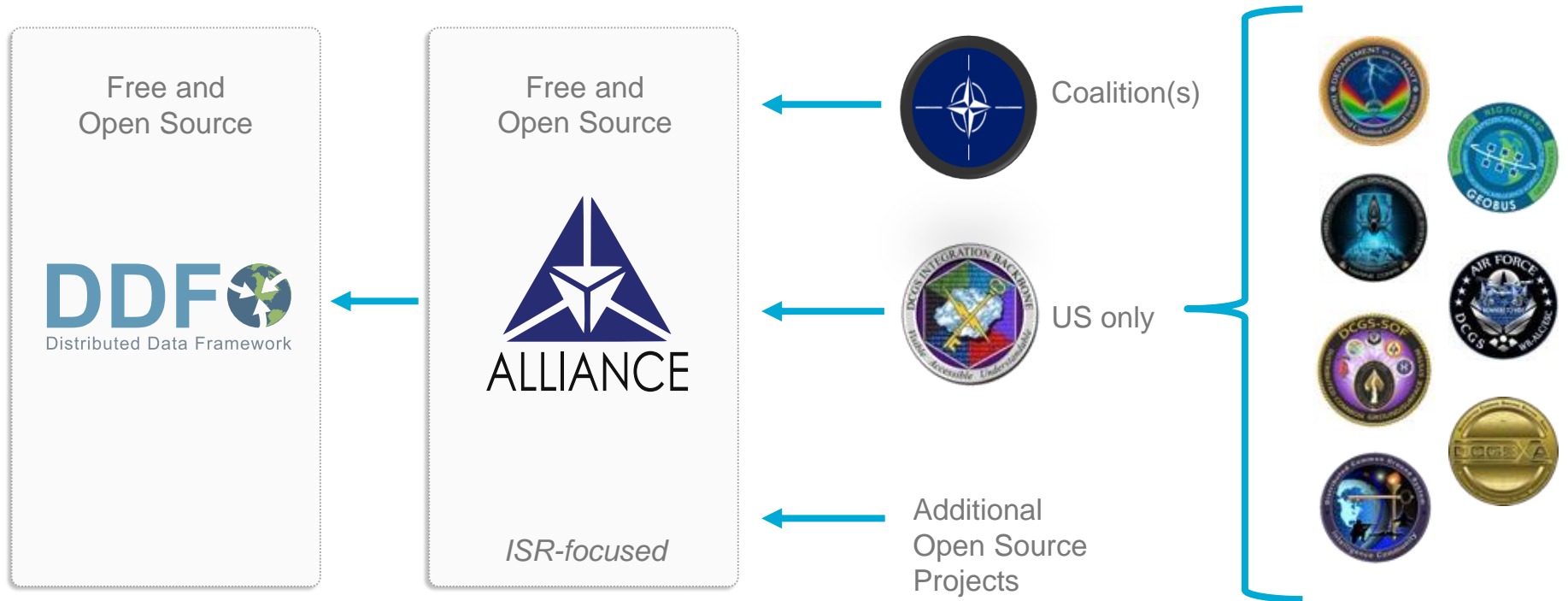
Developers Role

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

Capabilities Flow Downstream



Contributions Flow Upstream When Possible



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

Benefits

- » **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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