

LEVEL UP

Kelsey Hilton

# Understanding Agile and DevSecOps

Risk &amp; Compliance



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## Disclaimer

**A Few Things First****This presentation is for information only.**

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# Kelsey Hilton

PMP, PMI-ACP, SAFe POPM, CSM  
Project Manager



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## About Me



- Home is where your dog is
- Never say never
- Make ideas reality



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# Agenda

## Here's the Plan

- What is Agile?
- The Big Problem
- What is DevSecOps?
- DevSecOps Transformation



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# What is Agile?

## Today's Answer

Agile is a people-focused, results-oriented way of working centered around adaptive planning, continuous improvement, and short delivery times.



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# History of Agile

As a Way of Working



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**Manifesto for Agile Software Development**

We are uncovering better ways of developing software by doing it and helping others do it.  
Through this work we have come to value:

**Individuals and interactions** over processes and tools  
**Working software** over comprehensive documentation  
**Customer collaboration** over contract negotiation  
**Responding to change** over following a plan

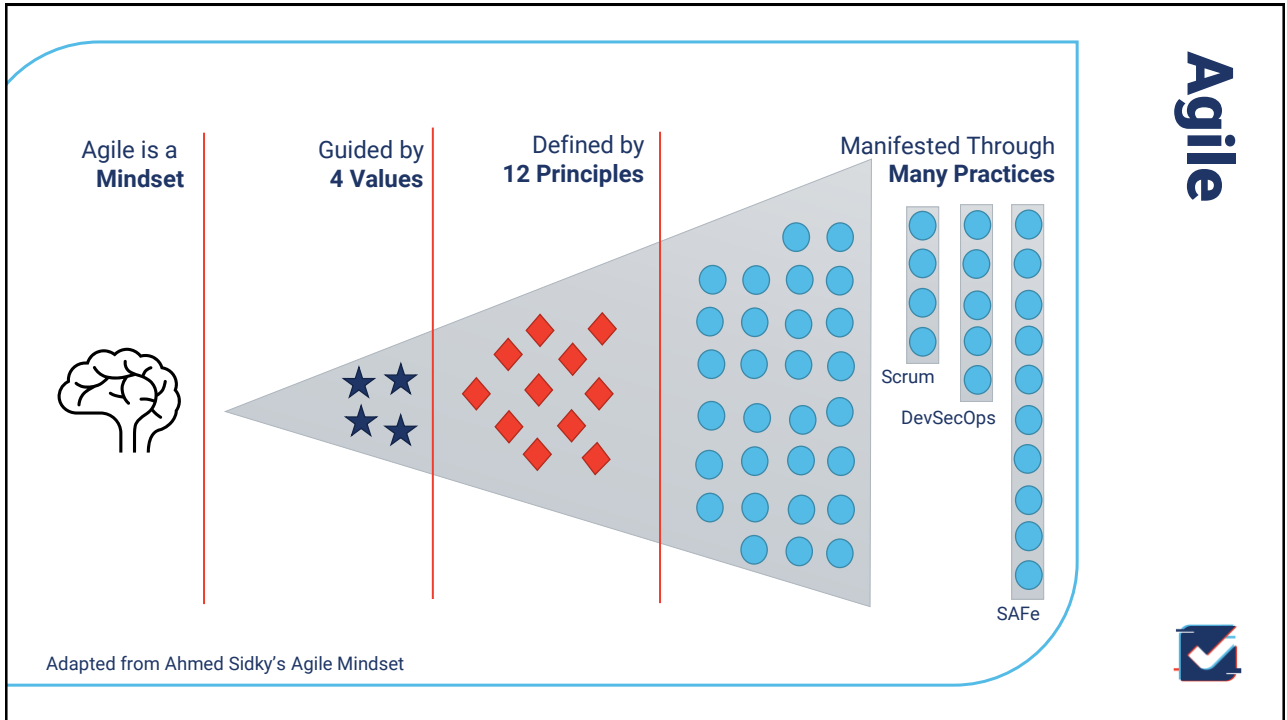
That is, while there is value in the items on the right, we value the items on the left more.

Kent Beck	James Grenning	Robert C. Martin
Mike Beedle	Jim Highsmith	Steve Mellor
Arie van Bennekum	Andrew Hunt	Ken Schwaber
Alistair Cockburn	Ron Jeffries	Jeff Sutherland
Ward Cunningham	Jon Kern	Dave Thomas
Martin Fowler	Brian Marick	

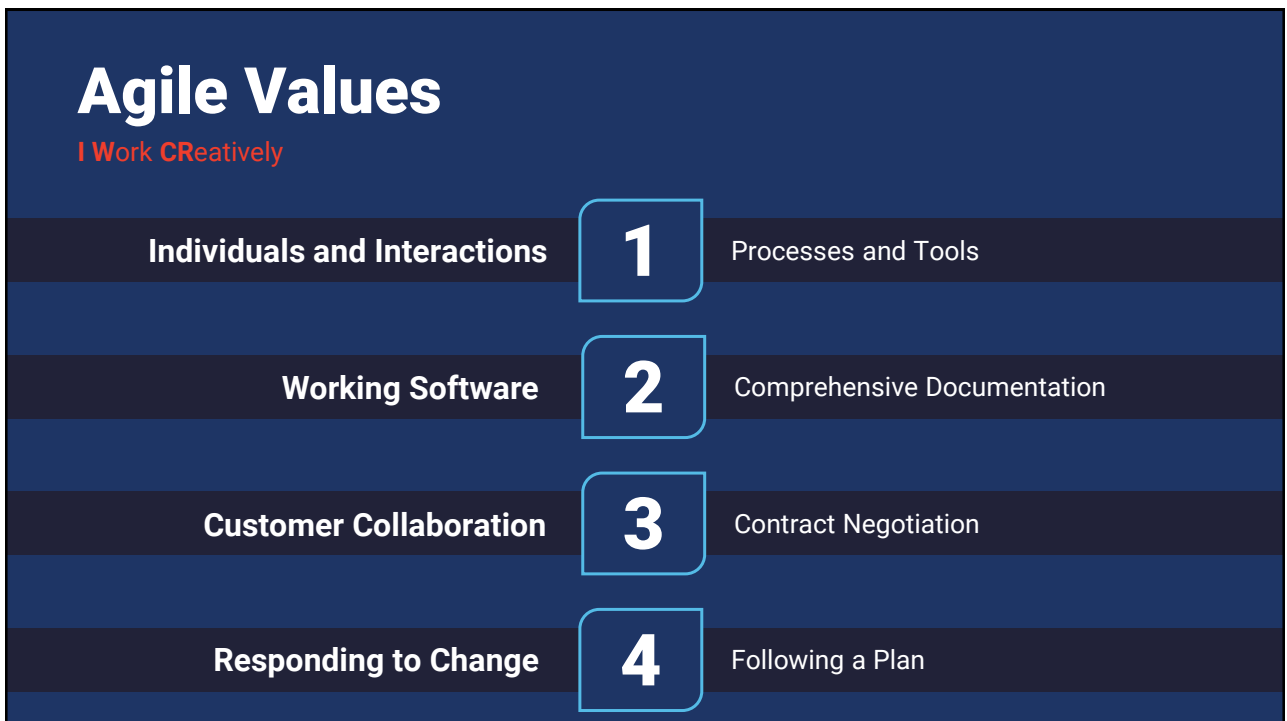
<https://agilemanifesto.org>

**Agile Manifesto**

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# Agile Values

I Work **C**reatively

Individuals and Interactions

I

Processes and Tools

Working Software

Work

Comprehensive Documentation

Customer Collaboration

Creatively

Contract Negotiation

Responding to Change

creatively

Following a Plan

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## Common Myths and Misconceptions



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# Common Myths and Misconceptions

## MYTH

No plan



No documentation



No formal training



## FACT

Agile uses Adaptive Planning

Agile encourages Just Barely Good Enough (JBGE) documentation

Formal agile training clarifies roles and responsibilities



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# What is your strength?



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# Agile Roles & Responsibilities

Summarized



## Product Owner

- Represents the customer
- Maintains the product backlog
- Works closely with team
- Accepts the release
- Participates in some agile ceremonies

## Scrum Master

- Protects the team from incoming requests from the business
- Removes roadblocks
- Leads agile ceremonies

## Team

- 3-11 members
- Self-organizing
- Cross-functional generalizing specialists
- Maintains the sprint backlog
- Participates in agile ceremonies

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# Agile Ceremonies

Scrum Framework



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Scaling Breaks Stuff

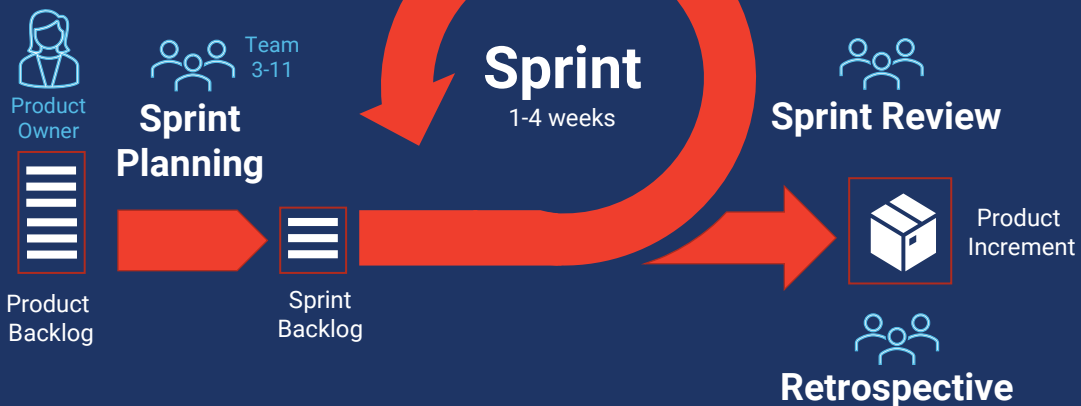
# Yesterday's "brilliant solution" is today's impediment.



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## Agile Ceremonies

Scrum Framework



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# Change

The Big Problem



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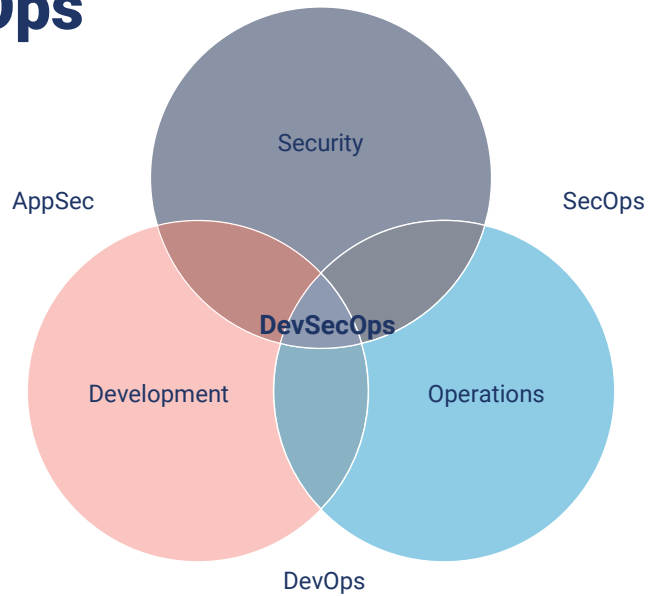


# DevSecOps

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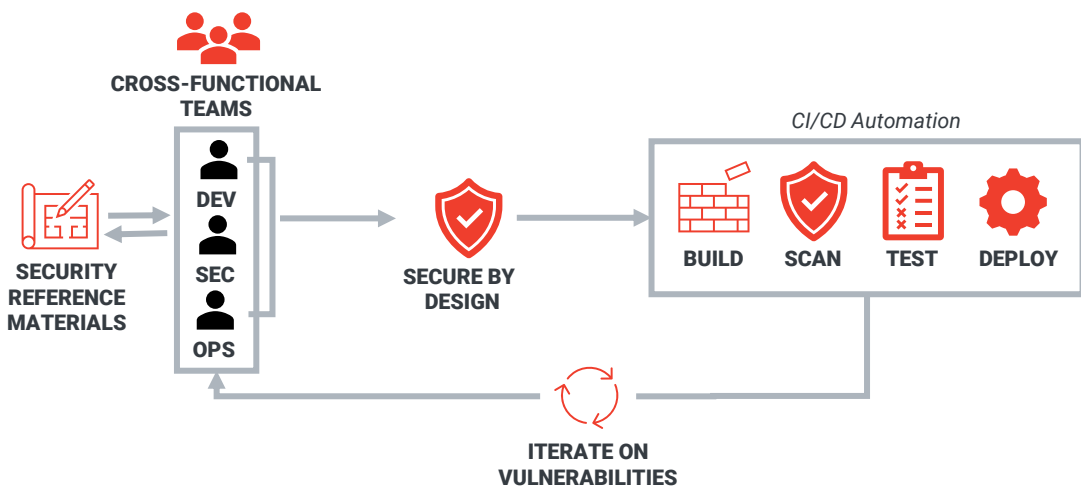
# DevSecOps

Software Safer Sooner



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## DevSecOps Operating Model



Modified from Credera

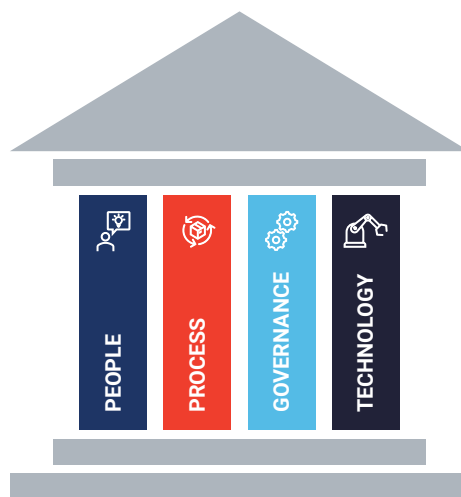


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# DevSecOps Transformation

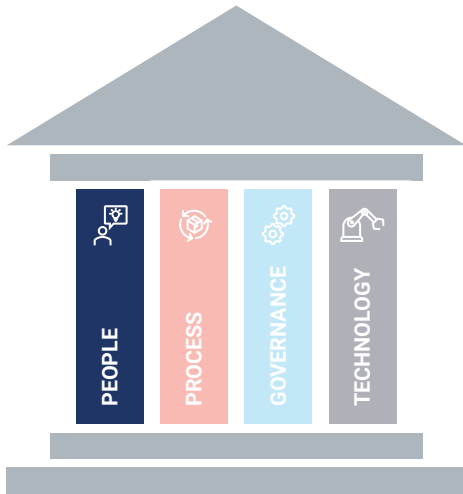
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## Pillars of Transformation



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# Pillars of Transformation: **People**



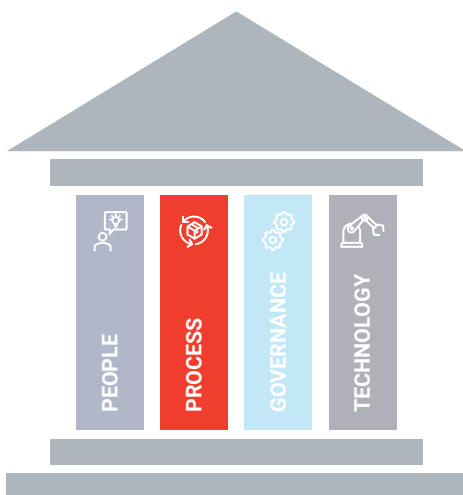
## Shared Responsibility for Security

- Invest in security training for everyone
- Remove conflicting goals
- Set shared objectives



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# Pillars of Transformation: **Process**



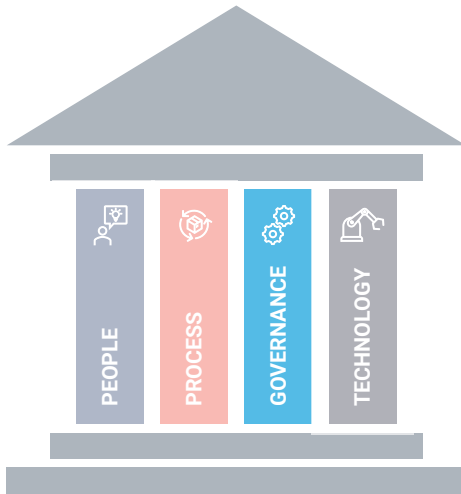
## Continuous Improvement

- Utilize insights and threat intelligence
- Take a risk-based approach to testing



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# Pillars of Transformation: Governance



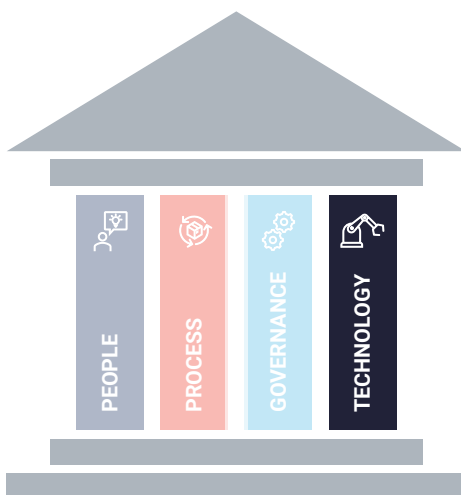
## Build Guardrails, Not Gates

- Clearly define roles and responsibilities
- Establish policies and procedures
- Monitor security metrics
- Enable security automation



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# Pillars of Transformation: Technology



## Automate Everything

- Embed audit evidence collection
- Automate recurring tasks
- Automate security scans

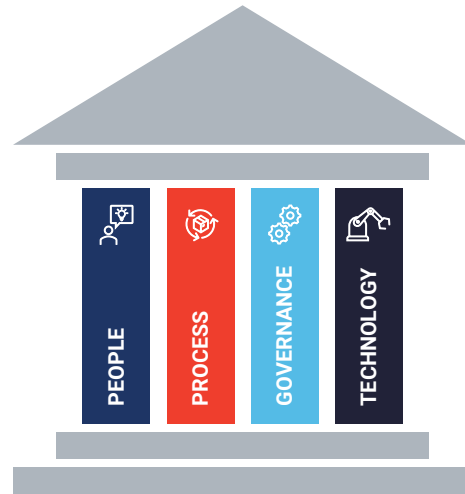


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# Pillars of Transformation

DevSecOps Culture Summarized

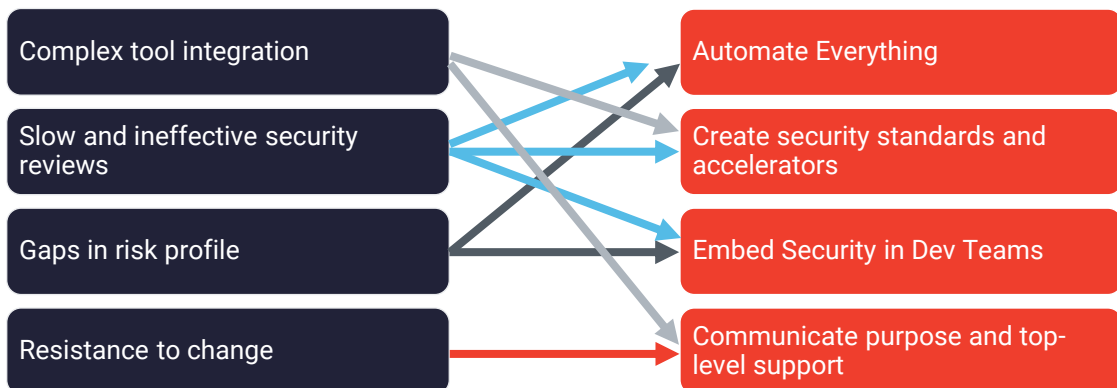
- Shared Responsibility for Security
- Continuous Improvement
- Effective Governance
- Automate Everything



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# Challenges

And Potential Solutions



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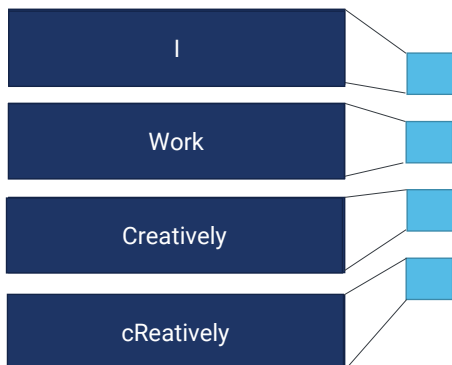
**“Culture eats strategy  
for breakfast.”  
– Peter Drucker**



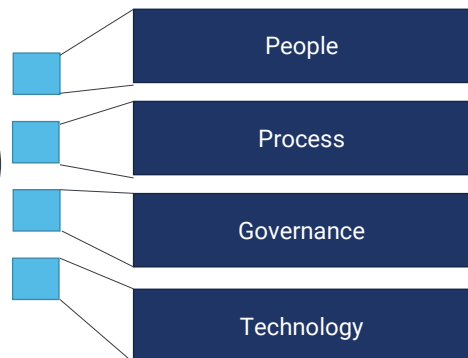
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## Key Takeaways

Agile is a way of working  
that values...



DevSecOps is an agile framework  
built around...



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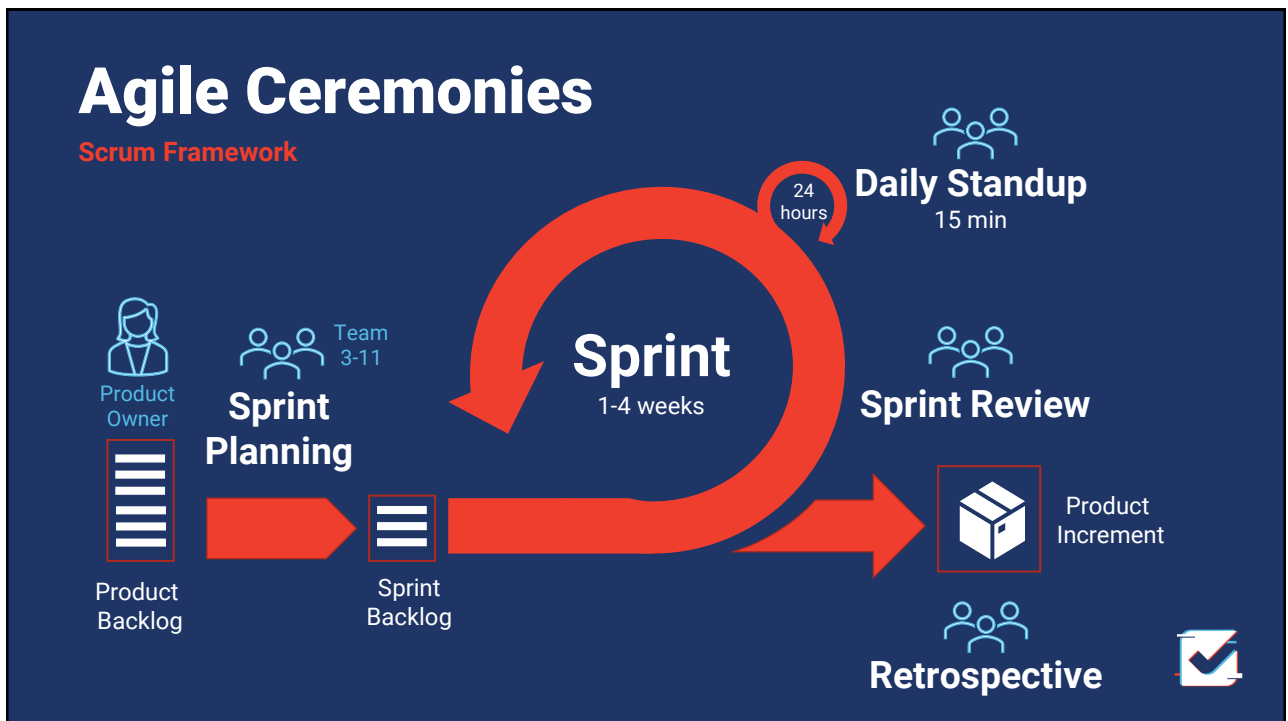


# What Next?

- Know your why
- Explore Agile
  - Scrum - Scrum Alliance
  - Disciplined Agile - PMI
  - Scaled Agile Framework
- Explore DevSecOps
  - DevSecOps in Azure
  - DevSecOps in AWS
- Start small



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LEVEL UP

THANKS FOR JOINING!

# Understanding Agile and DevSecOps

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