

Navigating Agile and Compliance: Securing Continuous Testing in the Enterprise SDLC

Continuous Delivery and DevOps

Testing is everywhere

Big organizations

(S)SDLC



Oren Reshef

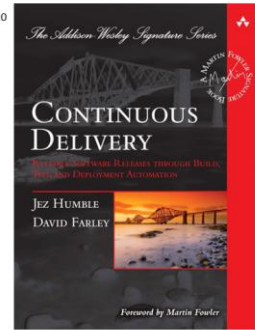
- A developer
- A tester
- (S)SDLC Process Owner

Disclaimer

Be skeptical when someone is telling you how it works at *[insert big-org name]*

“a software engineering approach in which software is always kept in a **releasable** state”

2010

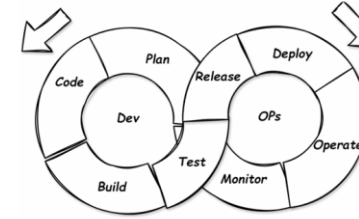


Dave Farley in “The State of Continuous Delivery in 2025: Adoption Patterns and the Technical Skills Divide”
An analysis of nearly 100 organizations and individuals

Stage 1: Test (Automation) Foundation

DevOps

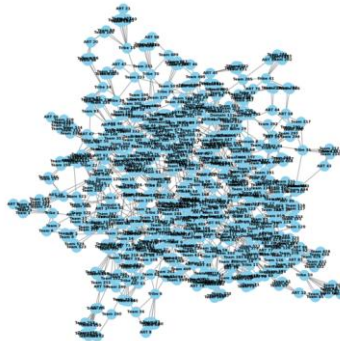
• A business-driven approach that focuses on delivering customer value by combining **agile** methods, close **collaboration**, and the usage of tools and **automation** of processes.



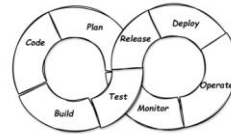
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Scaling to Big organizations

- JavaScript
- Typescript
- C#
- C++
- Ruby
- Go
- Rust
- Cobol
- Bash
- php
- SQL
- Java
- Python
- PowerShell
- Terraform
- Ansible
- Kotlin
- HTML
- Rust
- sas
- Angular
- Perl



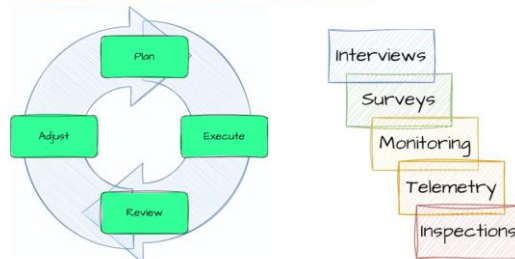
SSDLC Secure Software Development Life Cycle



Regulations come in different shapes, forms, sources and hierarchies

- Global
 - ISO 27001
- European/EU
 - European Banking Authority (EBA)
 - GDPR
 - DORA
 - EU AI Act
- Country
 - Finansinspektionen
- Inter company
 - PCI DSS
- Internal

Continuous improvement

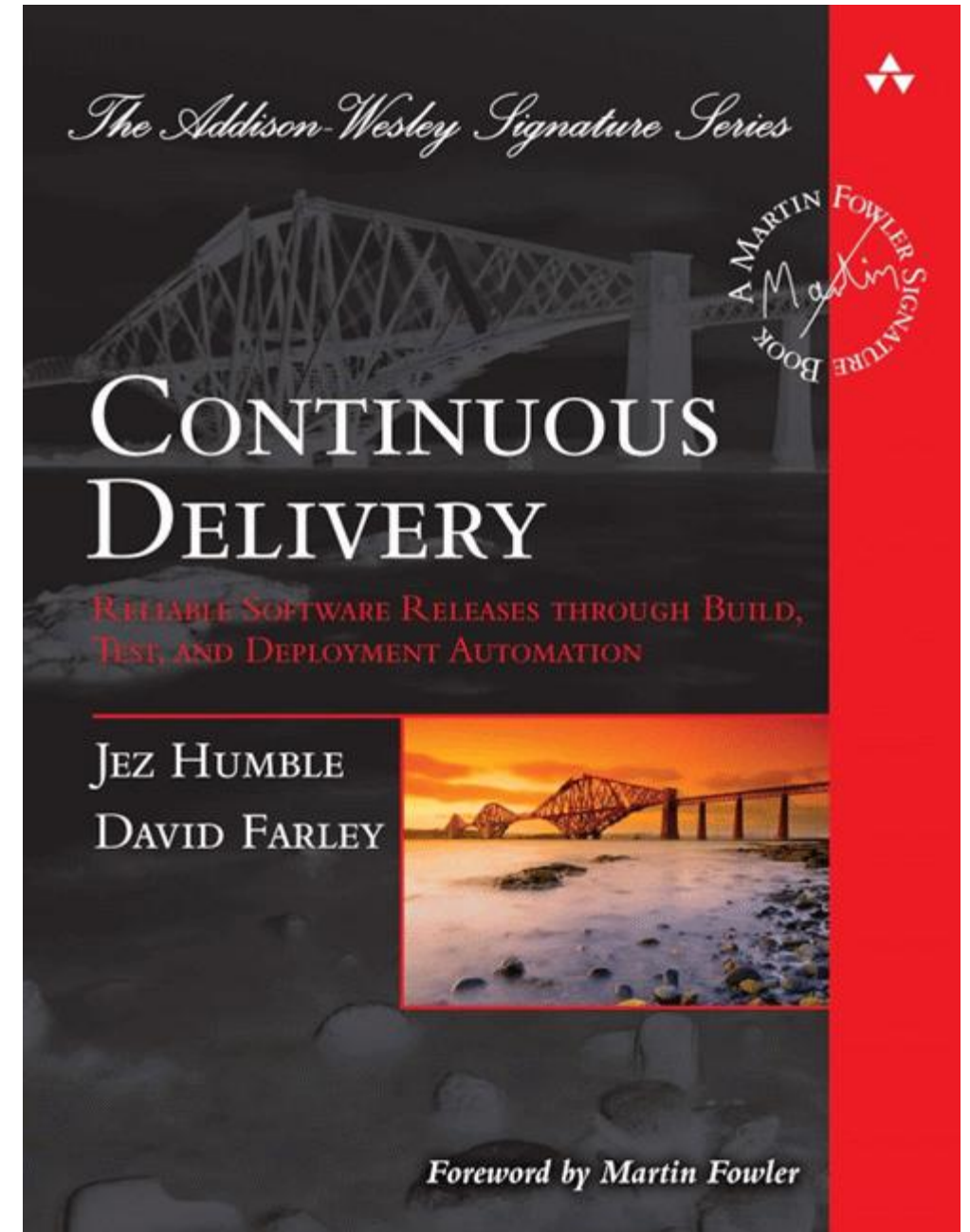


What can you take back to your team?

DevOps and Continuous Delivery not only align with enterprise-scale and regulated environments but enhance quality and compliance.

“a software engineering approach in which software is always kept in a **releasable** state”

2010

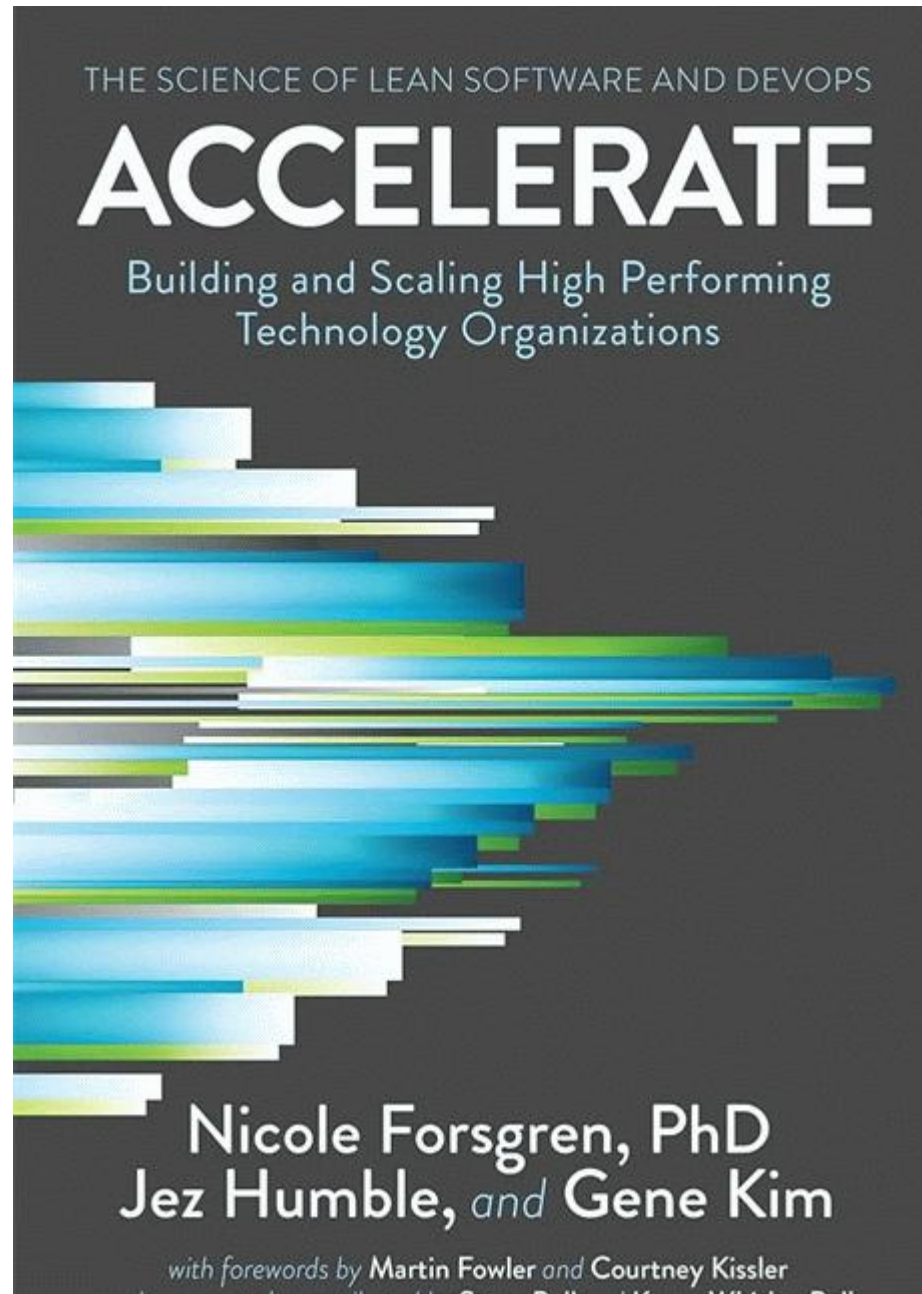


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Stage 1: Test (Automation) Foundation

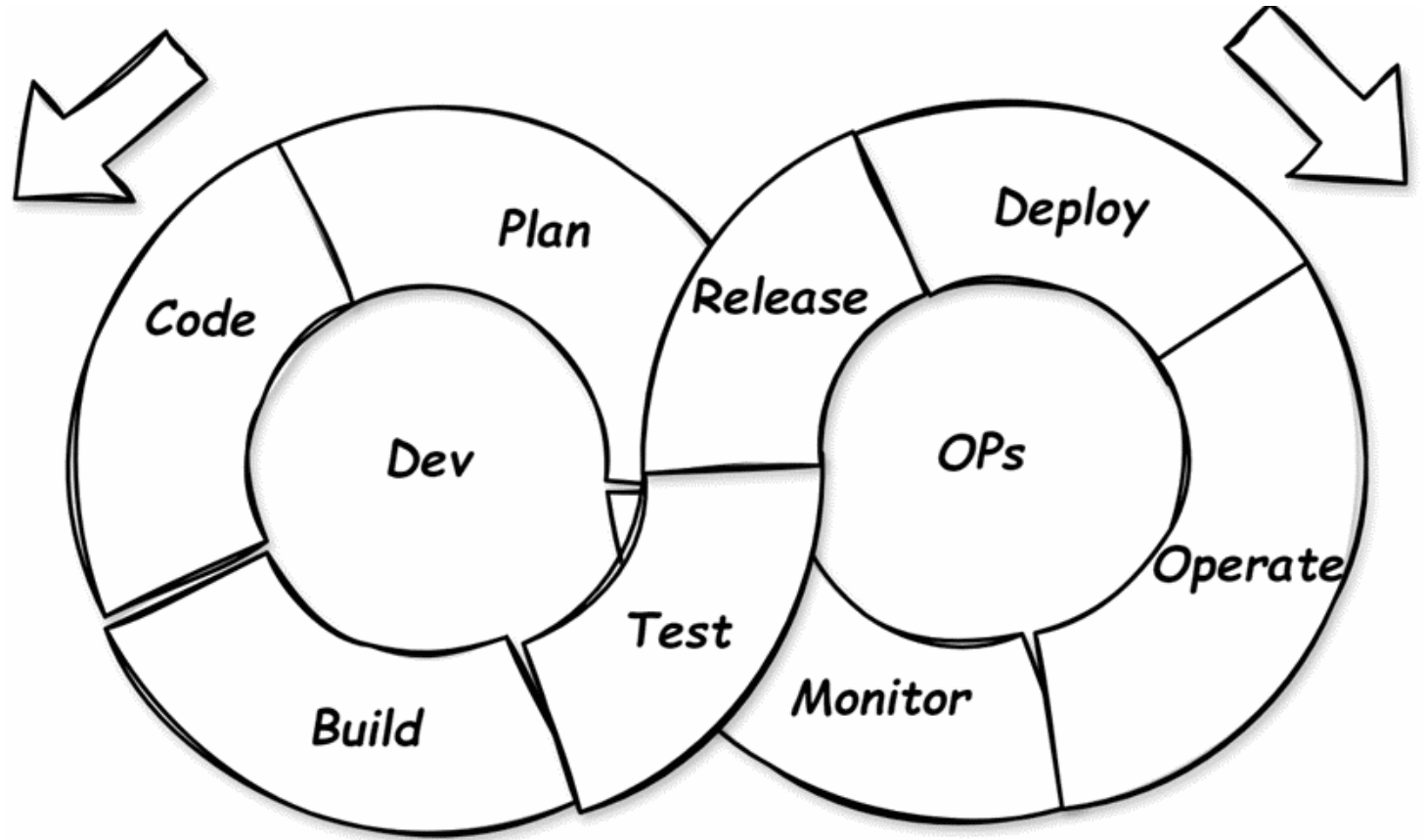
<https://dora.dev>

2017



DevOps

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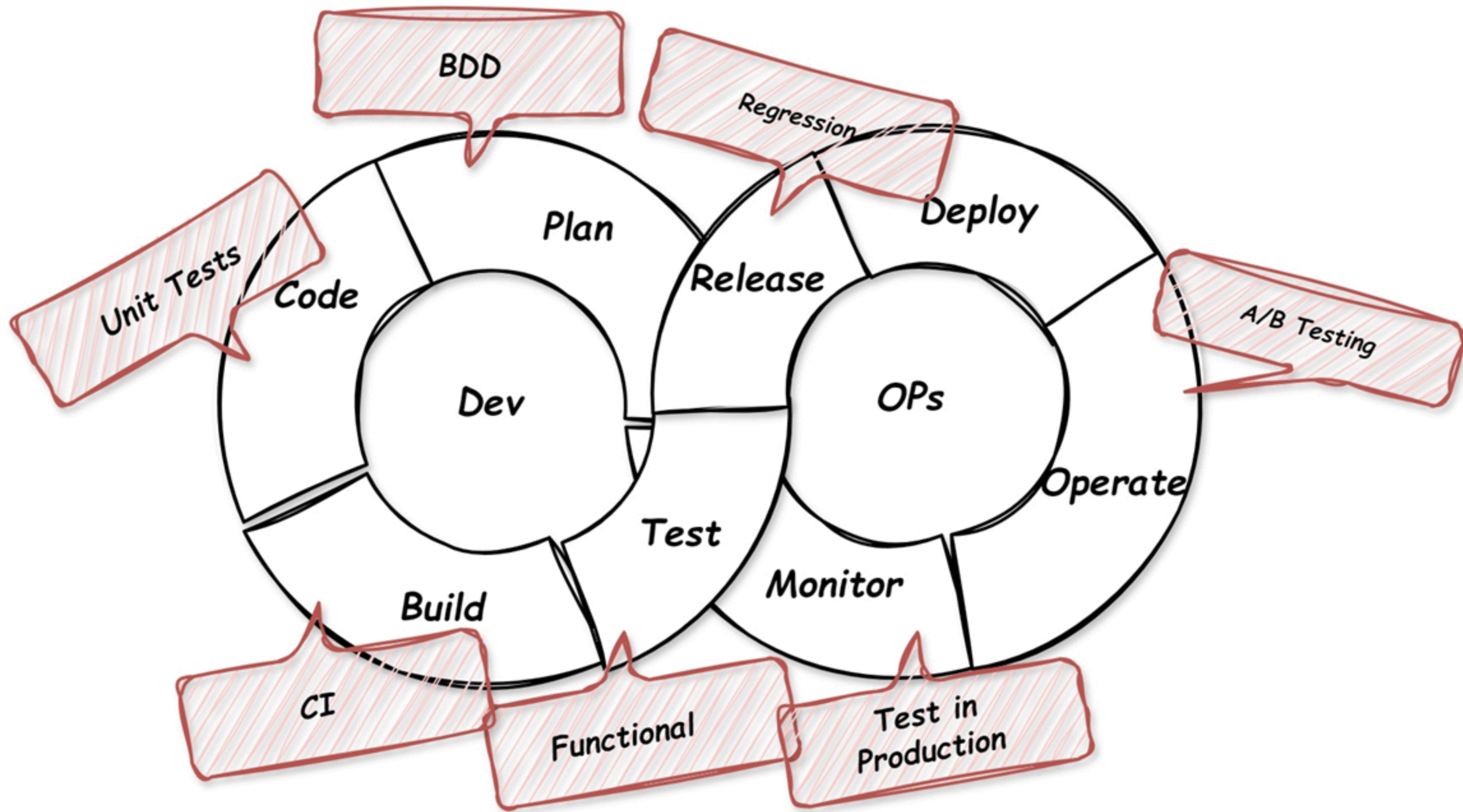


How does Testing integrate with DevOps?

“you need to make sure that developers, testers, and operations collaborate throughout the delivery process. That means all of them are present for project inceptions, showcases, and retrospectives.”

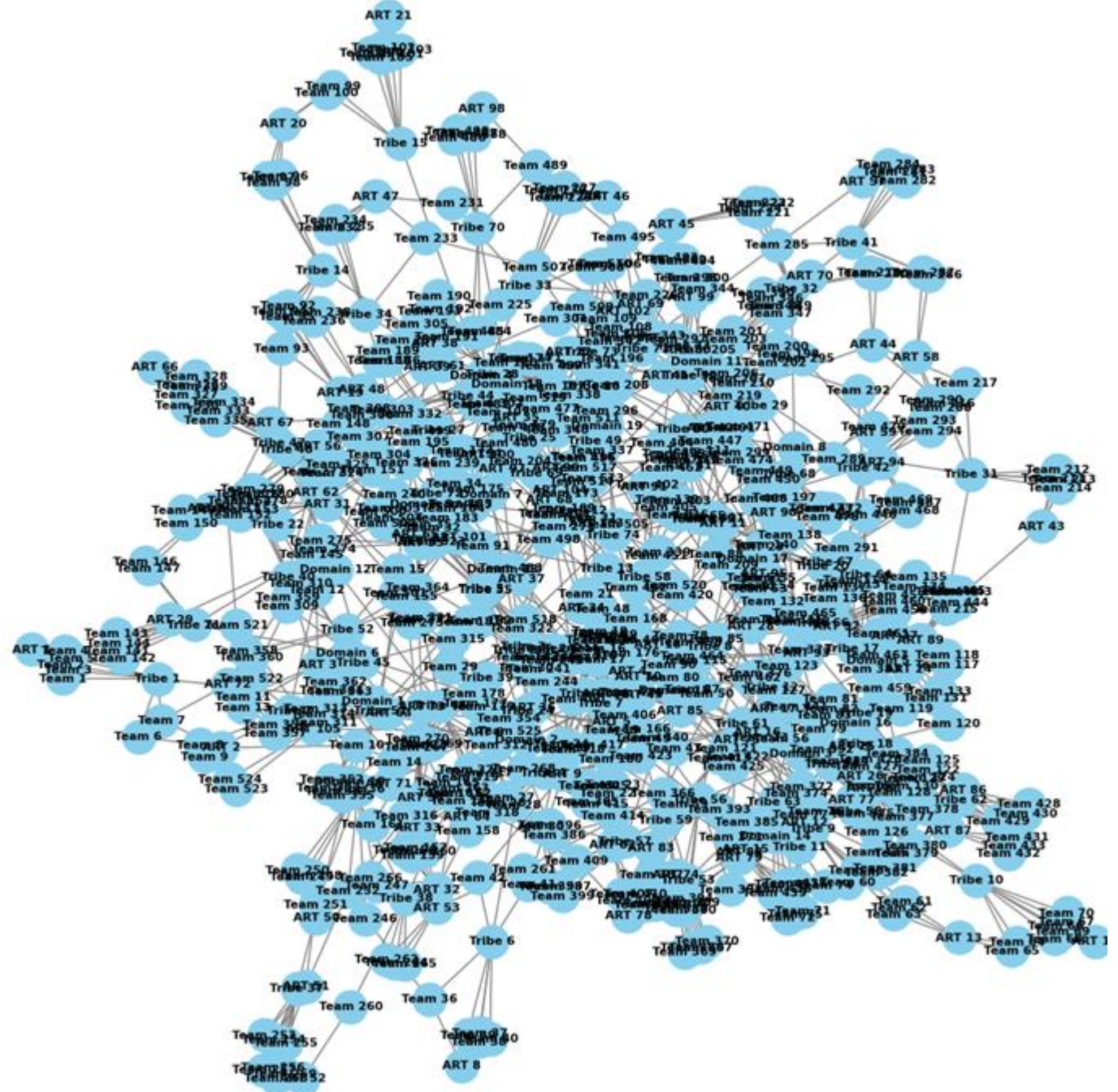
Jez Humble in an interview, Sep 06, 2011

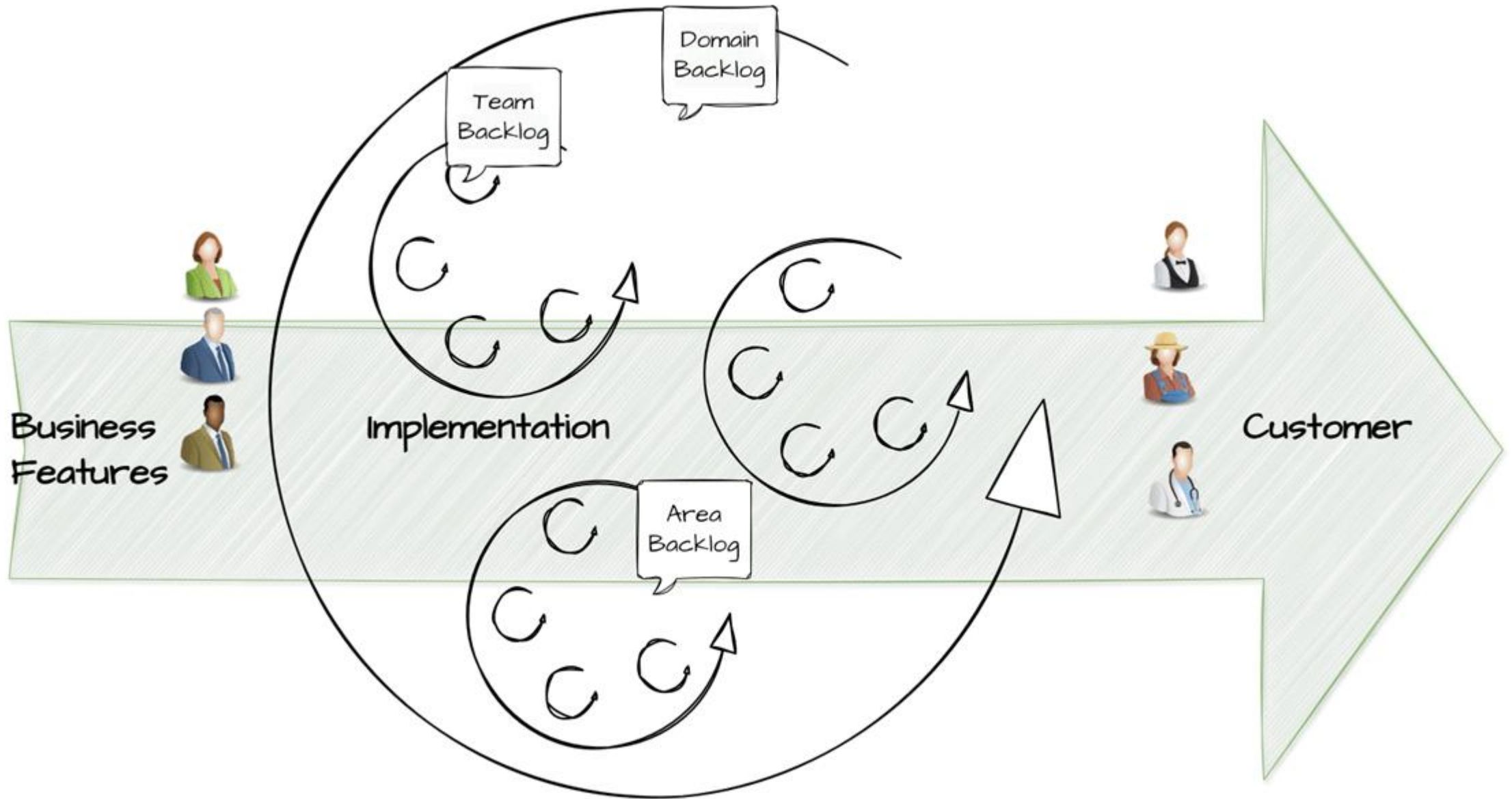
<https://www.infoq.com/articles/humble-farley-continuous-delivery/>



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sas
Angular
Perl





scaling agile methodologies

Business

SAFe

DevOps/
DevSecOps

Security



Dev and
Security
practices

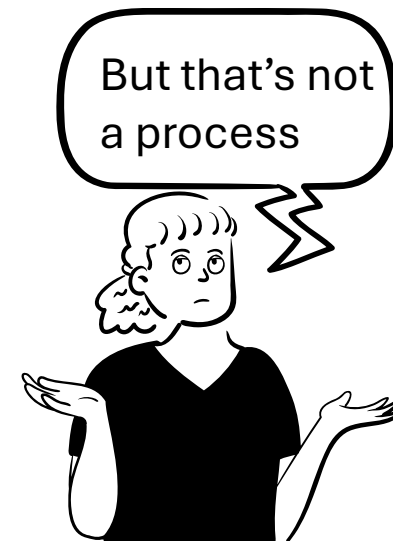
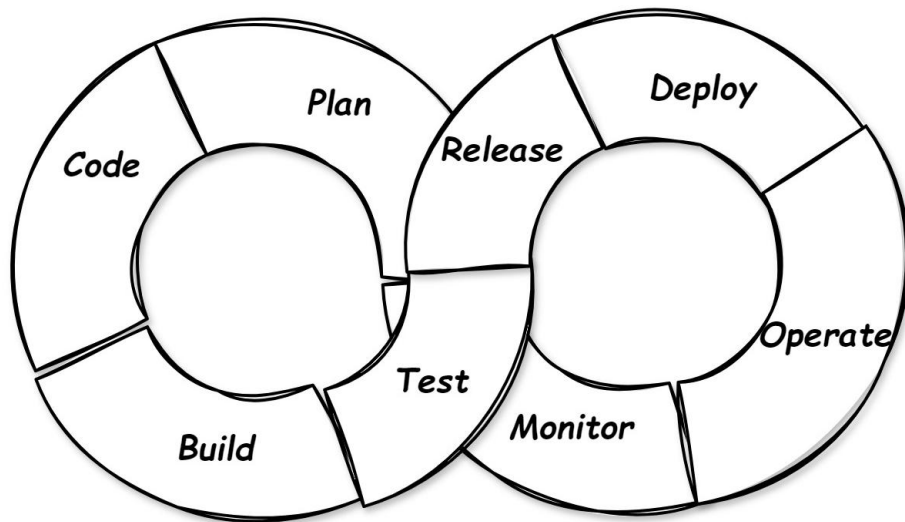
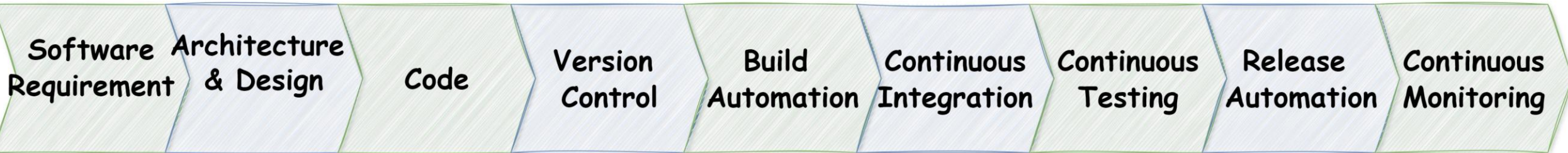
Tools
& Technical
Solutions

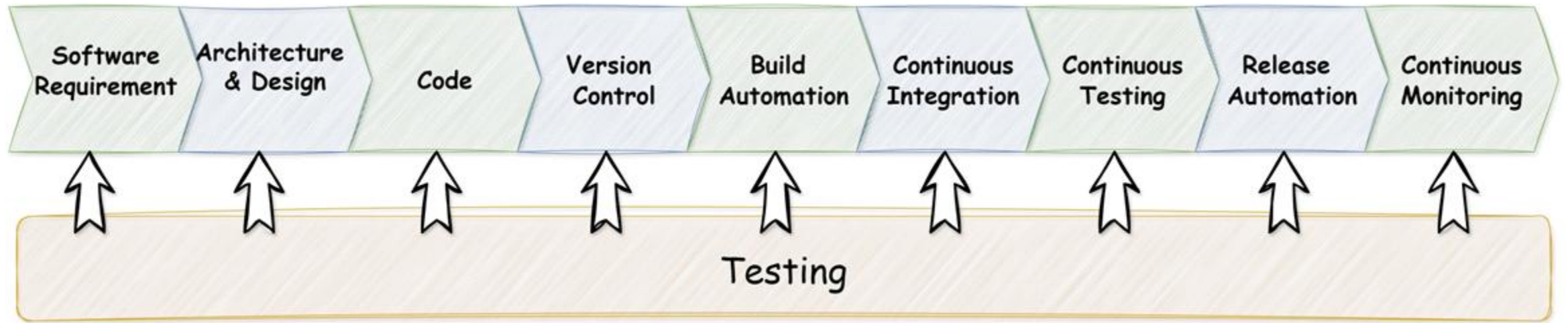
Change management

Configuration Management

Regulations

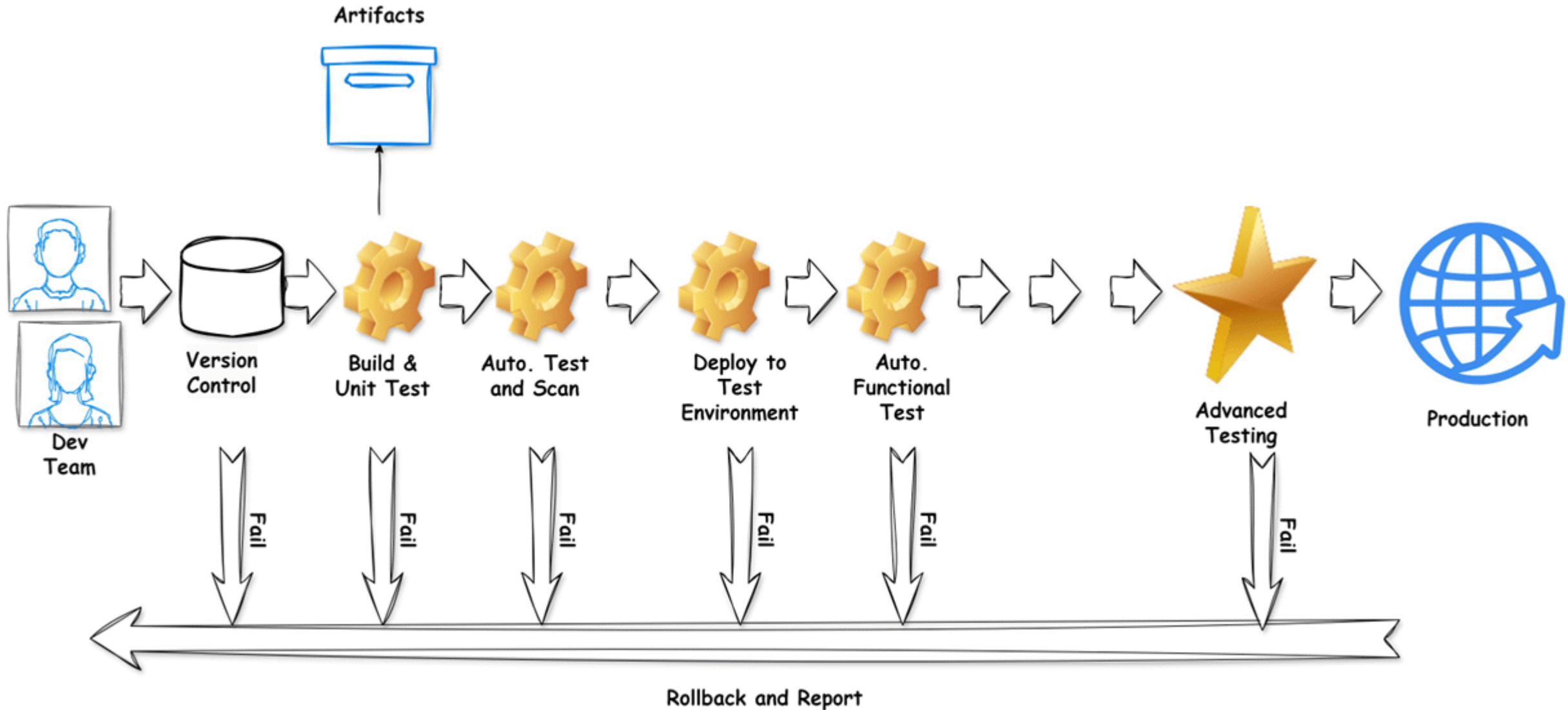
SSDLC Secure Software Development Life Cycle





Testing is Continuous

Continuous Integration Pipeline



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GDPR

- (d) a process for regularly testing, assessing and evaluating the effectiveness of technical and organisational measures for ensuring the security of the processing.

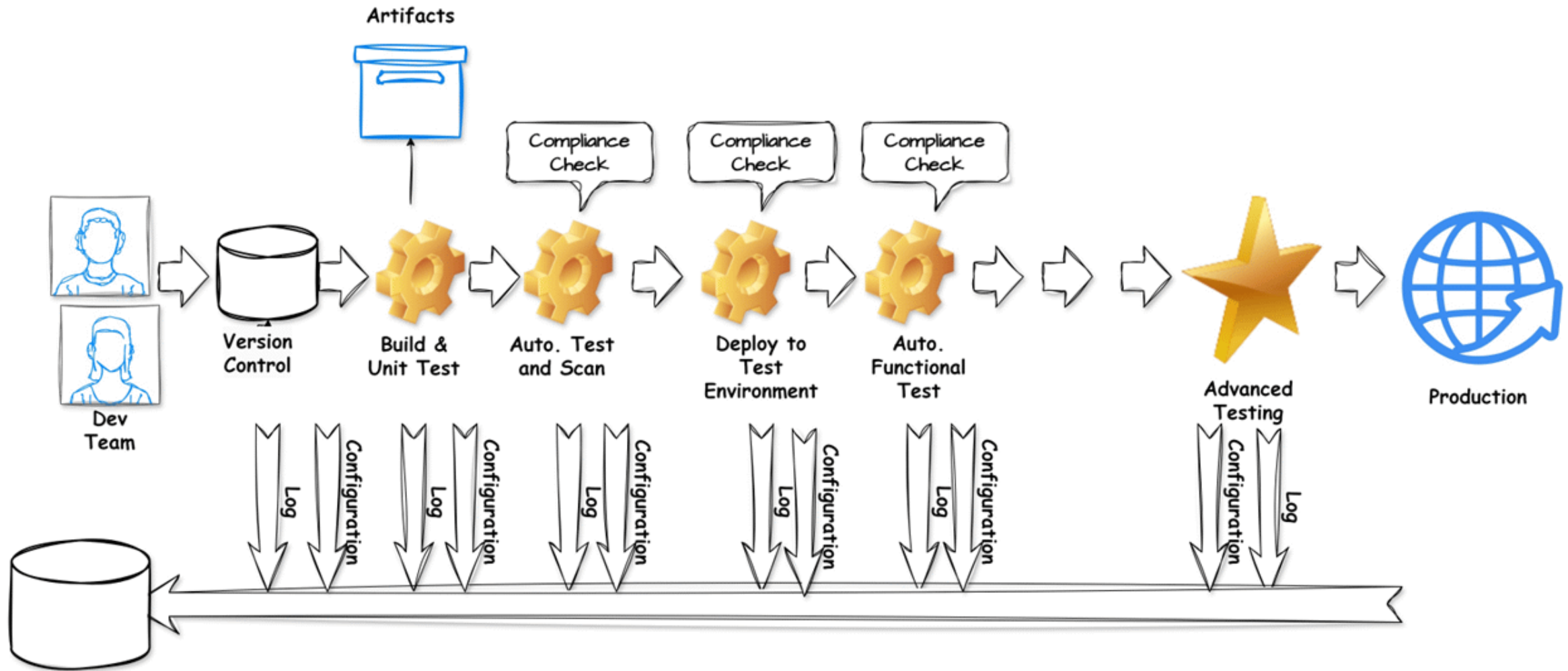
DORA

Article 25

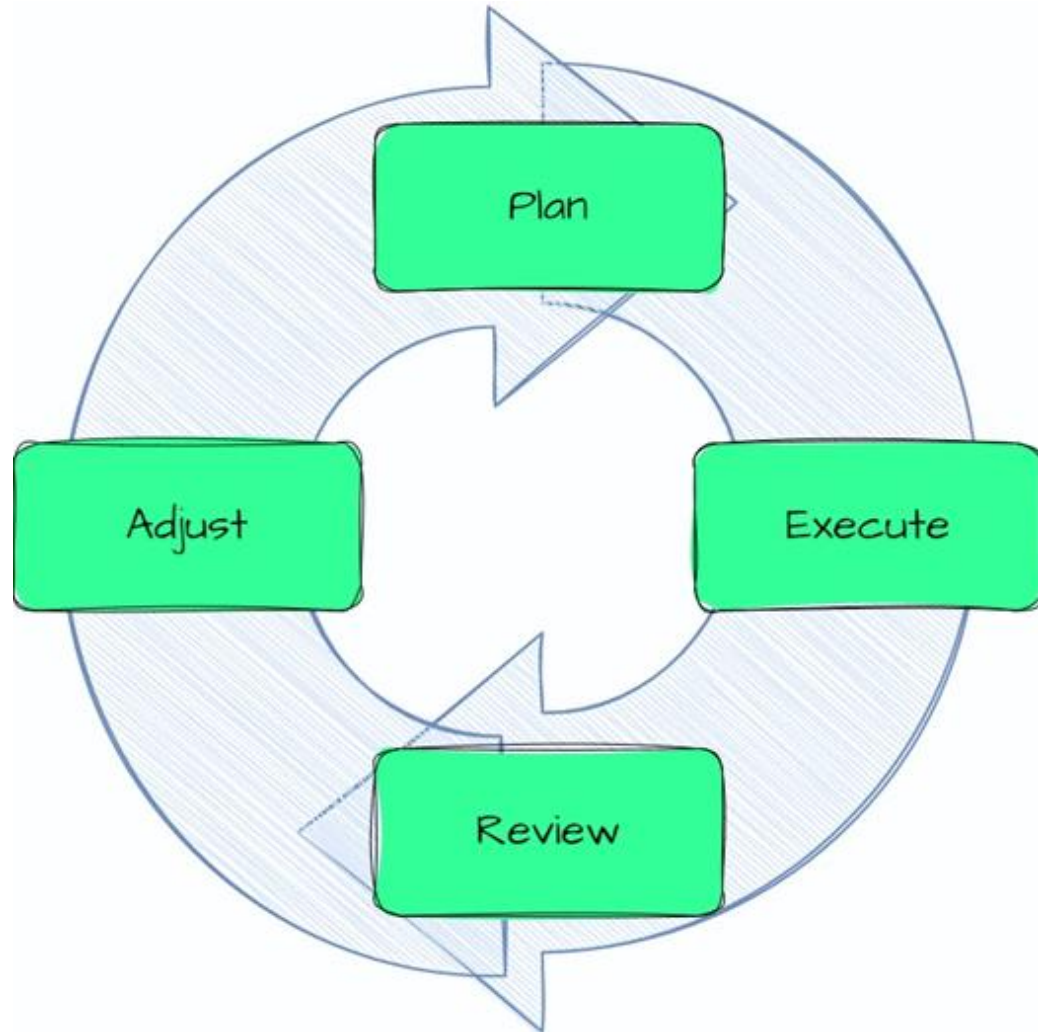
Testing of ICT tools and systems

1. The digital operational resilience testing programme referred to in Article 24 shall provide, in accordance with the criteria set out in Article 4(2), for the execution of appropriate tests, such as vulnerability assessments and scans, open source analyses, network security assessments, gap analyses, physical security reviews, questionnaires and scanning software solutions, source code reviews where feasible, scenario-based tests, compatibility testing, performance testing, end-to-end testing and penetration testing.

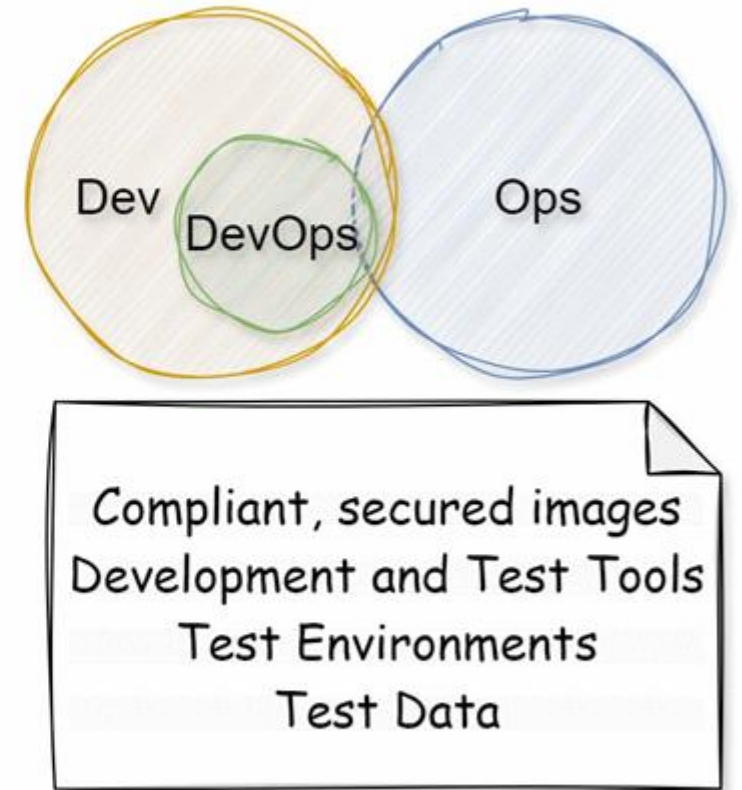
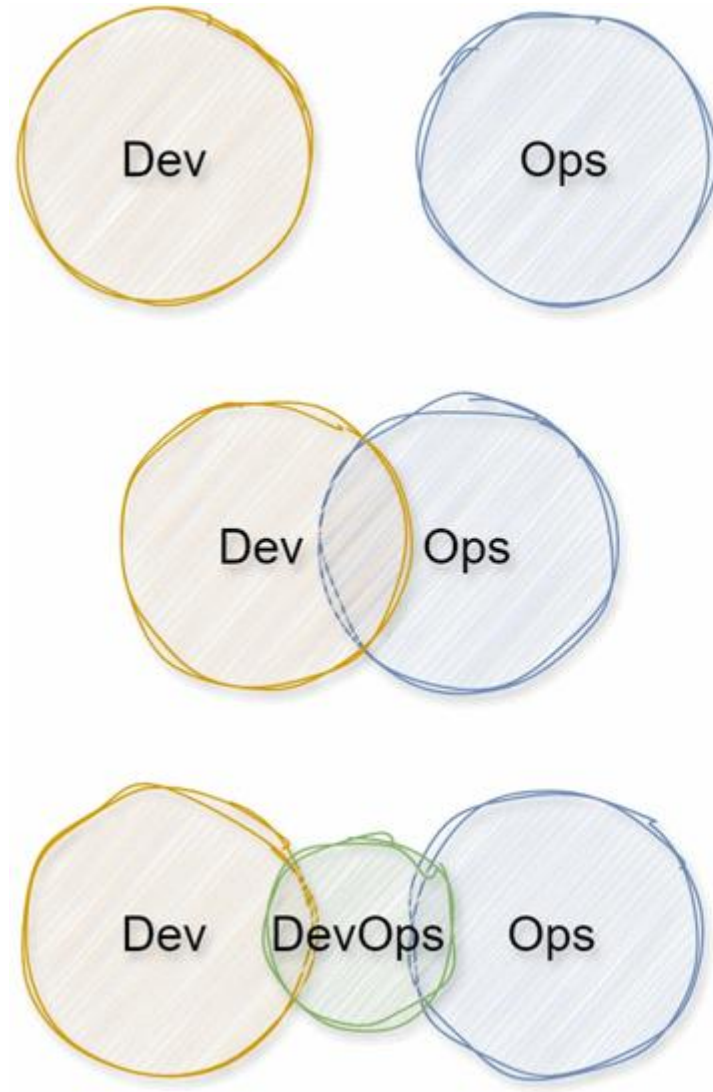
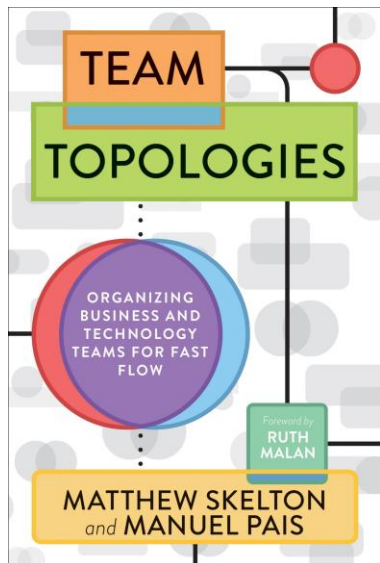
Continuous Compliance



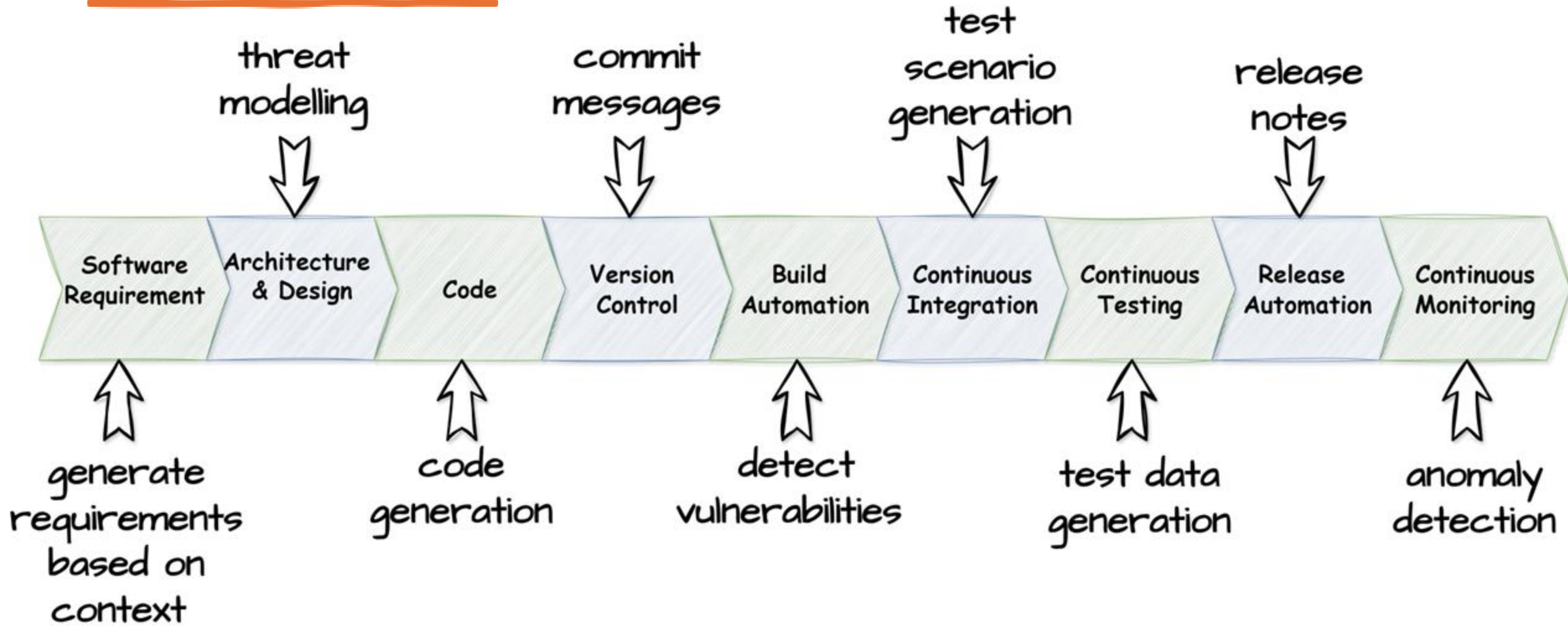
Continuous improvement



Team Topologies



Using AI



What can you take back to your team?

DevOps and Continuous Delivery not only align with enterprise-scale and regulated environments but enhance quality and compliance.

Thank you
