



QA Practices in large SAFe



Szilárd Széll

05.10.2022



Szilárd Széll – intro



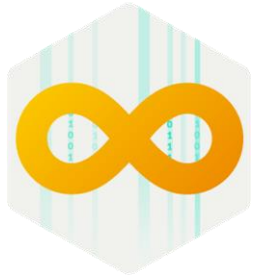
Experiences

- 5G DevOps transformation lead and Senior Consultant at Eficode
- Test Coach and DevOps Evangelist in NOKIA (for 19 long years)
- Former President of the Hungarian Testing Board
- Processes Management and Compliance Work Group Chair of ISTQB
- Program Committee Member of – UCAAT, HUSTEF, and EuroSTAR2021 conferences

Certifications

- DevOps DASA Foundation, SAFe SPC, Certified Scrum Master
- ISTQB CTCL-ITP-Full, CTAL-TM, CTFL-AT, CTFL
- IREB CPRE
- Lean Six Sigma Green Belt
- Lean Service Creation - Facilitator

Eficode expertise



DevOps and cloud transformation



Eficode ROOT DevOps platform

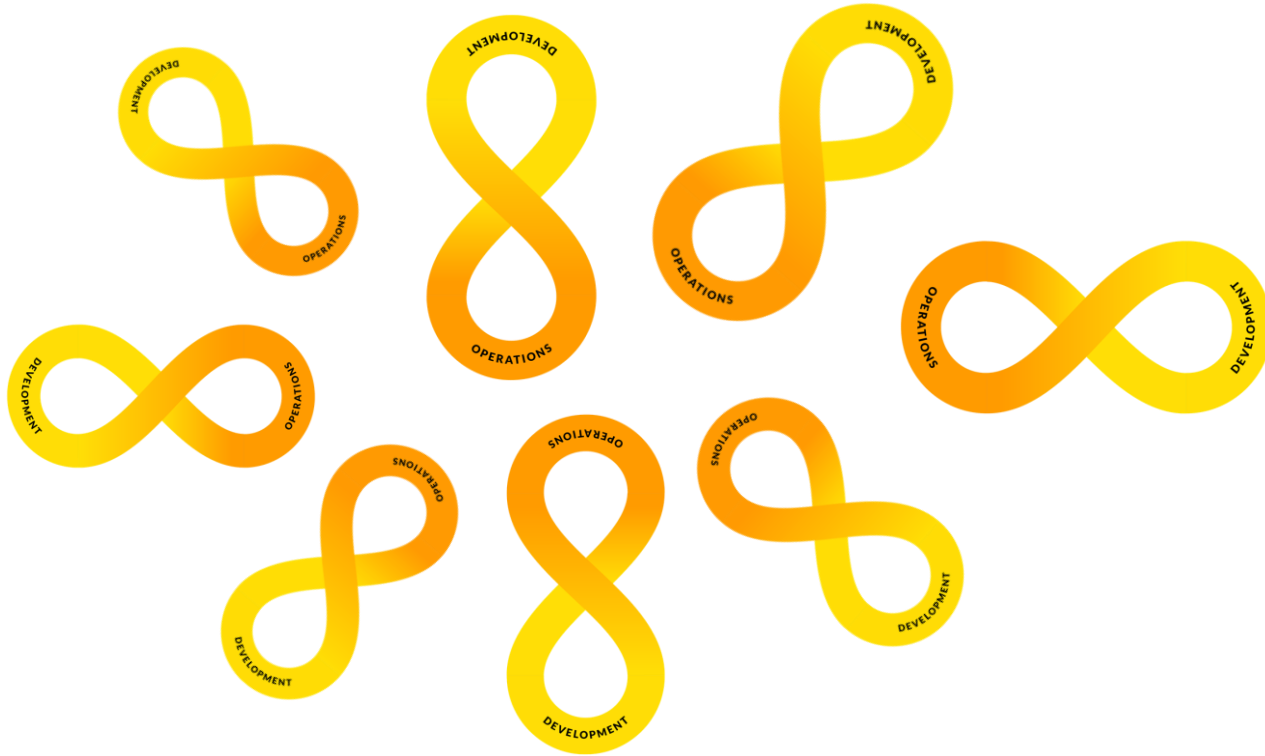


SAFe transformation partner



Atlassian solutions

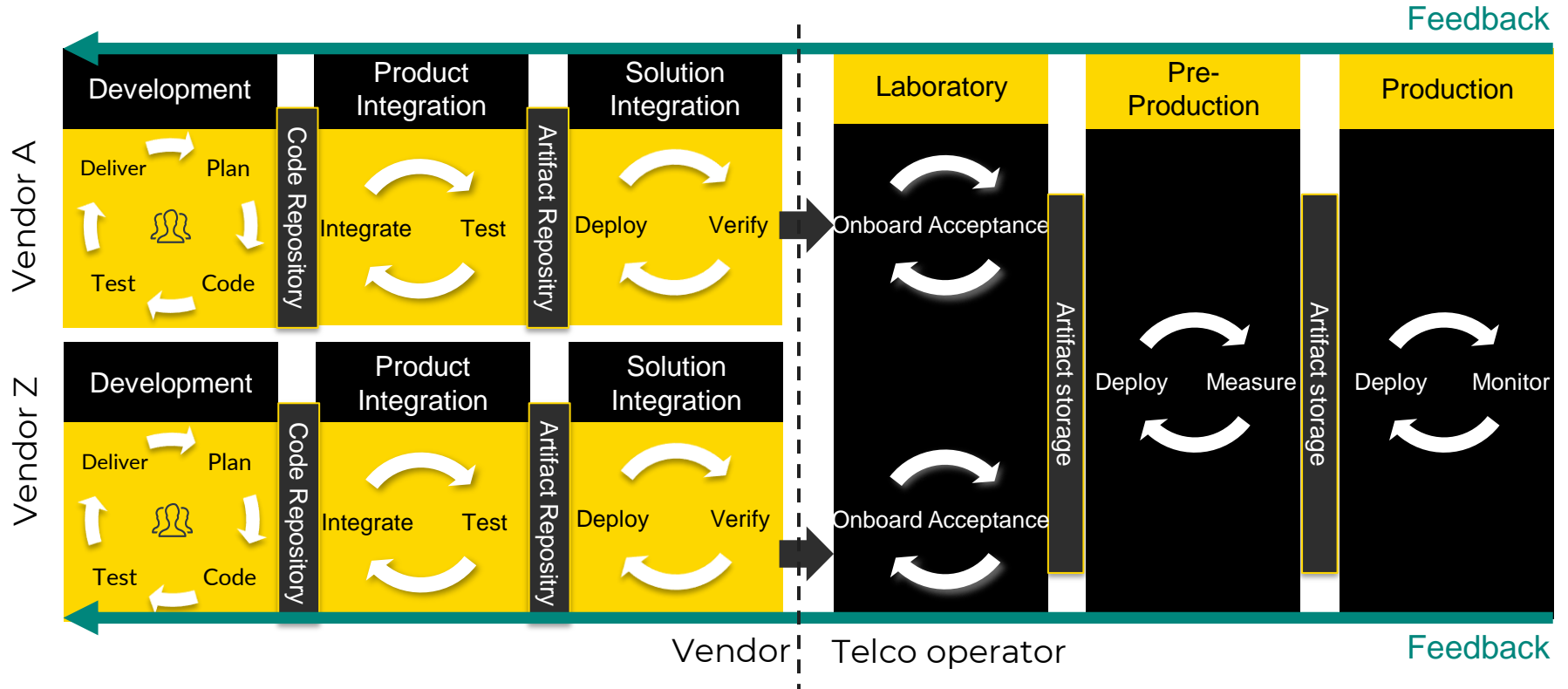
Multi-vendor Telco DevOps challenge



Multi-vendor Telco DevOps goal

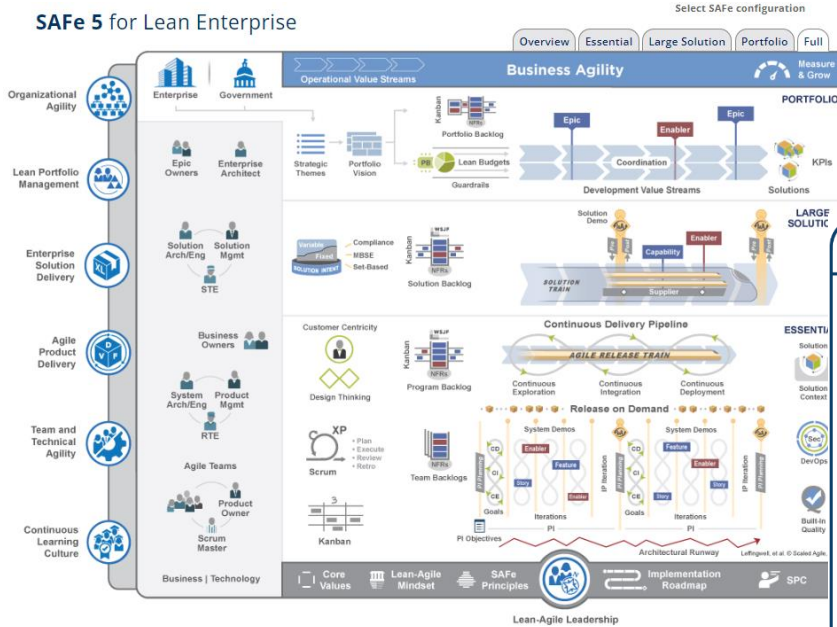


Multivendor DevOps pipeline

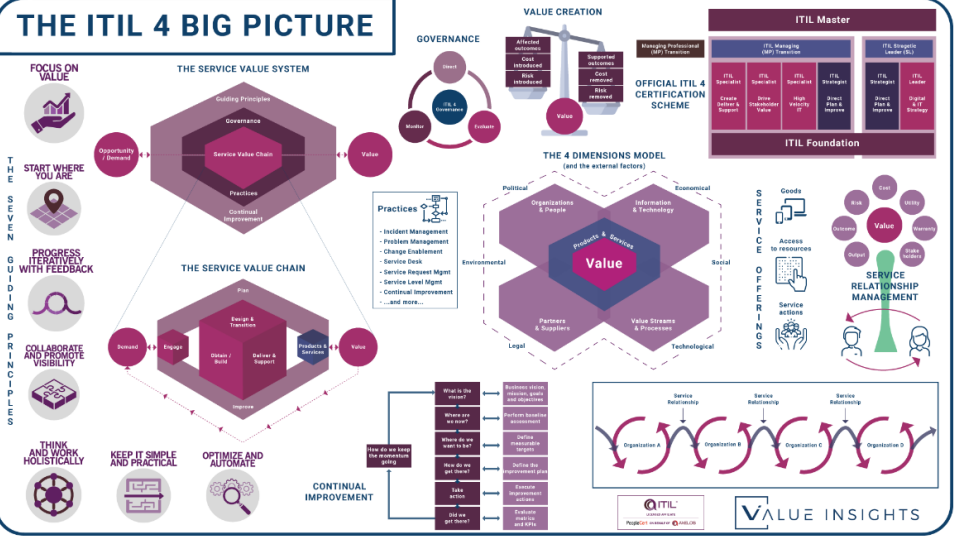


The landscape: SAFe + ITIL

SAFe 5 for Lean Enterprise



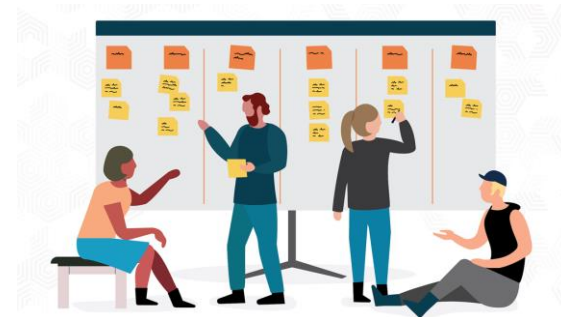
THE ITIL 4 BIG PICTURE





Describe our Continuous Quality Assurance process based on SAFE and Risk based Testing approach, utilizing the CI/CD pipeline with dynamic quality gates, and automation in all stages of the verification process

Expectation towards Continuous Quality Assurance Strategy



Layers of the Continuous QA Strategy

SAFe cadence

Scaled Agile Way of Working

- Responsibilities: Agile teams, System Teams
- Backlog analysis: Roadmaps, DoR, DoD, NFRs, AC
- Way of Working: QA collaboration practices and templates

Value flow

Value Flow and Test Activities

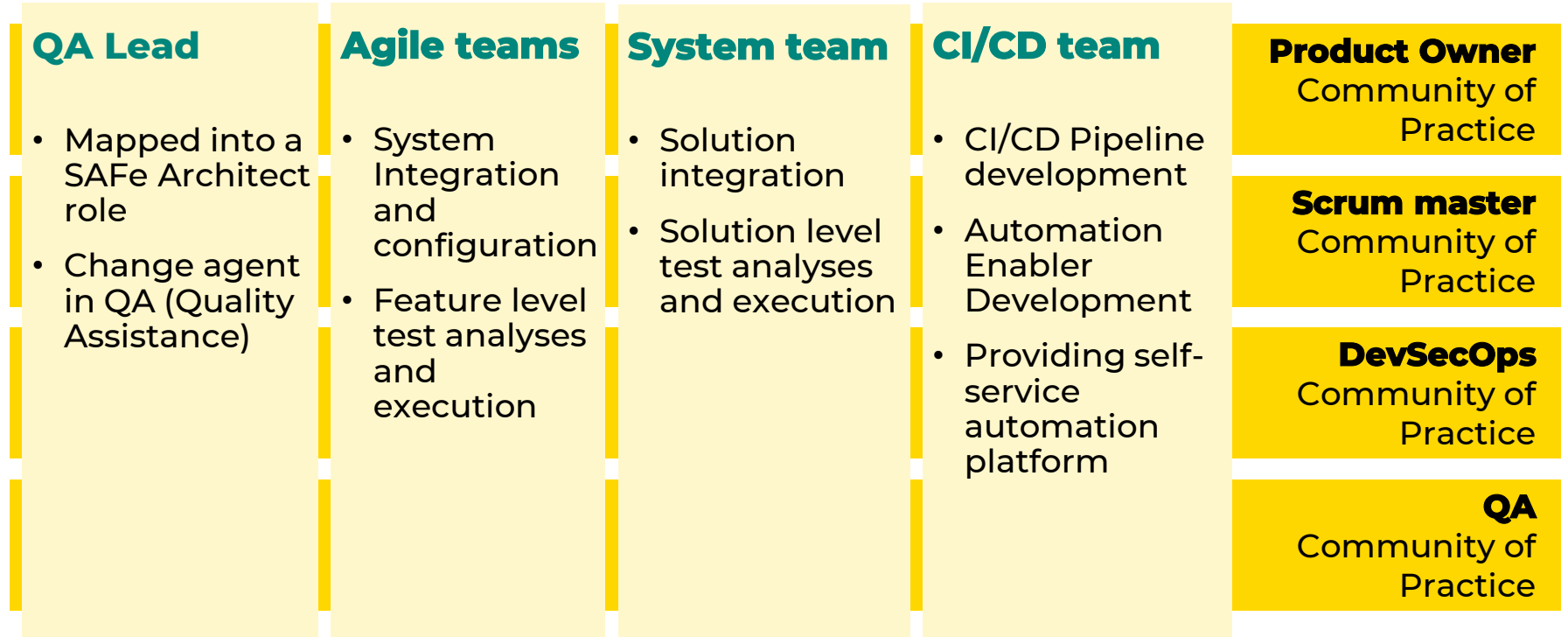
- Deployment flow per network service
- Regression Test and Acceptance Test activities within flow
- Dynamic Quality Gates

Pipeline

CI/CD pipeline and automation

- Pipeline preparation
- Test Automation tool onboarding
- Initial Test Case Automation and Keyword creation

QA Roles and Responsibilities within teams



Automation is everyone's responsibility: the team that designed the test case is responsible for it

Backlog analysis: Roadmaps, DoR, DoD, NFRs

Roadmaps

- Update CQA Strategy in line with Cadence
- Enabler EPICs to build CQA Architecture Runway

DoR

- Testable Value
- Acceptance Criteria
- Identify Testing Enablers
- Agile team and/or System team scope

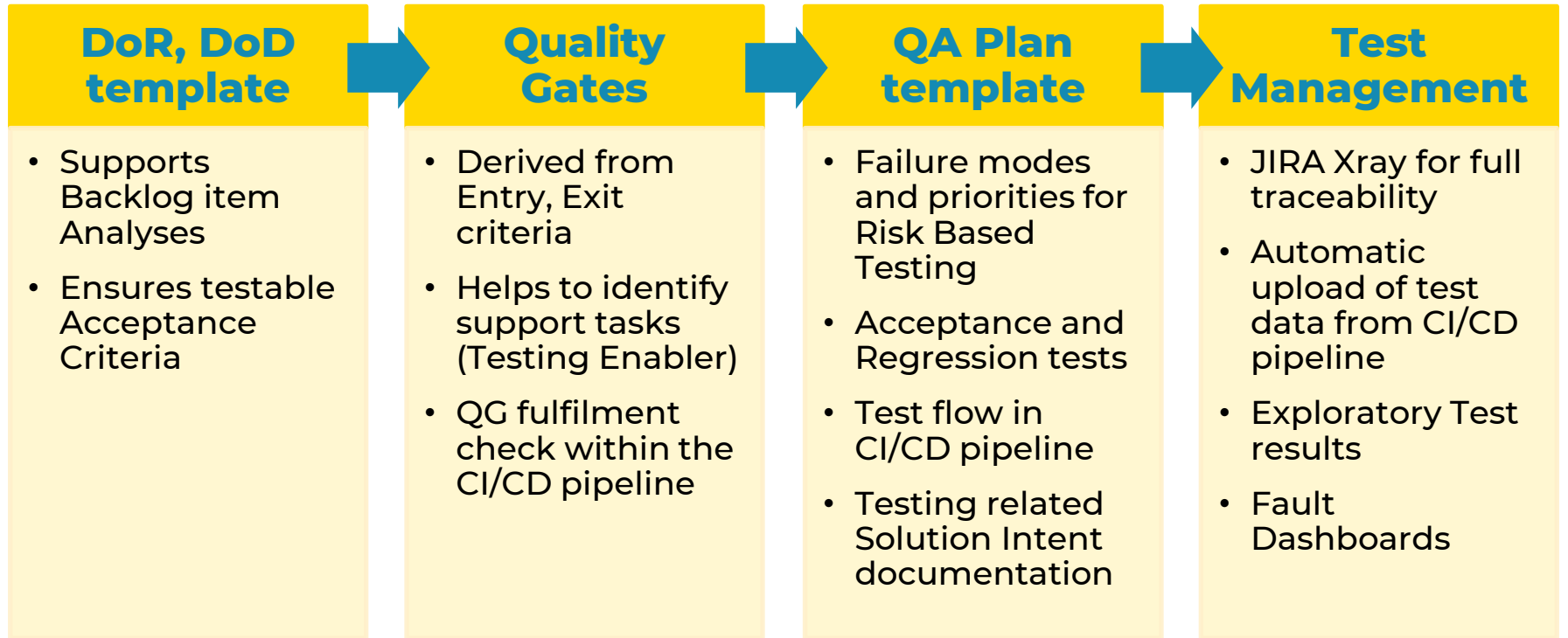
DoD

- Acceptance Test and Validation
- Fault status
- Operational Readiness
- Regression Test update

NFR

- Deployability
- Observability
- Security
- Reliability
- Performance
- Usability

QA collaboration practices and templates



Change of perspective from TM to QA

test management

The planning, scheduling, estimating, monitoring, reporting, control and completion of test activities.



quality assurance (QA)

Activities focused on providing confidence that quality requirements will be fulfilled.



quality assistance

An approach to quality management that focuses on a quality culture throughout an organization.

Key take away

- 01. Transition from Test Management to Quality Assistance is key**
- 02. Tailoring SAFe shall not mean keeping waterfall testing practices**
- 03. Collaboration in a QA Lead role is even more important then before**
- 04. Successful SAFe relies on successful DevOps transformation**

Thank you!

eficode

Szilard Szell

<https://www.eficode.com/szilard-szell>

Further Reading

<https://www.eficode.com/pipeline-game>

<https://www.eficode.com/blog/lego-devops>

<https://www.eficode.com/blog/5g-with-organizational-transformation>

