

# How testing is evolving in DevOps...

...and how shall you evolve yourself

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DevOps Transformation Lead

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**TESTING**  
ASSEMBLY

# Agenda



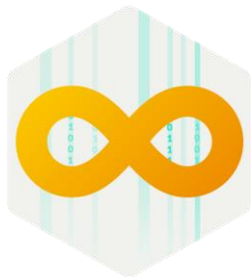
- Intro
- DevOps, the 3 ways and how Testing fits
- How testing is evolving in DevOps and how should you
- Sum it up

# Introduction

Who we are? Who I am?



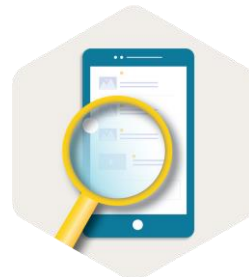
# Eficode expertise



**DevOps and cloud  
transformation**



**Eficode ROOT  
DevOps platform**



**Digital services  
development**



**Atlassian  
solutions**

## Szilard Szell - in a nutshell

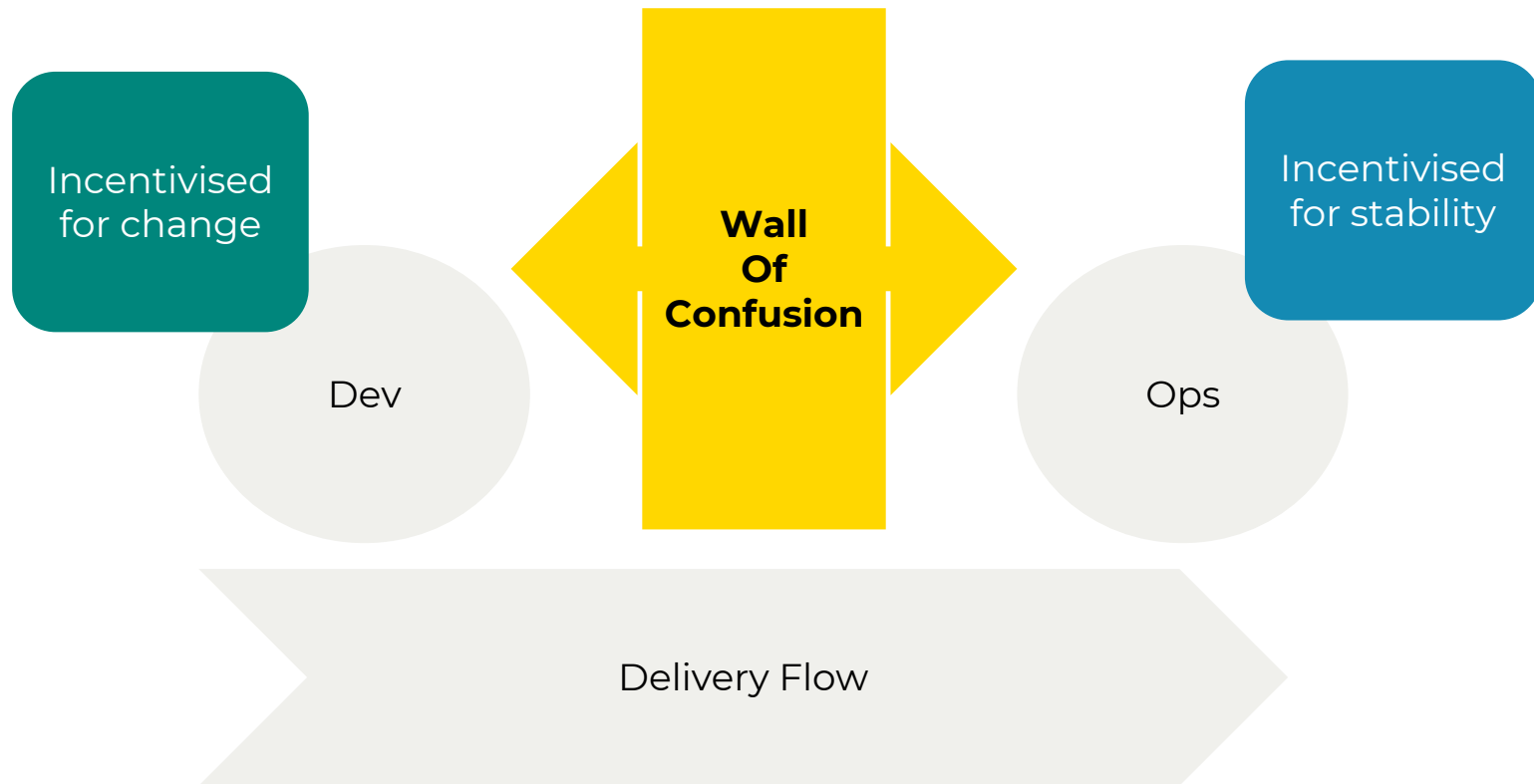


- Transformation lead at Eficode
- Long 19 years in NOKIA
- LEGO and Certification collector
- Voluntary in Hungarian Testing Board
- Voluntary in ISTQB
- PC member of Conferences – UCAAT, HUSTEF, and EuroSTAR2021
- Proud father of a 12 years old teenager

# What Testing in DevOps means for you?



# The Chronic Conflict



# DevOps



Delivery Flow



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**Dev\*Ops**

**QA?**

**Business?**

**InfoSec**

**Management?**



Delivery Flow

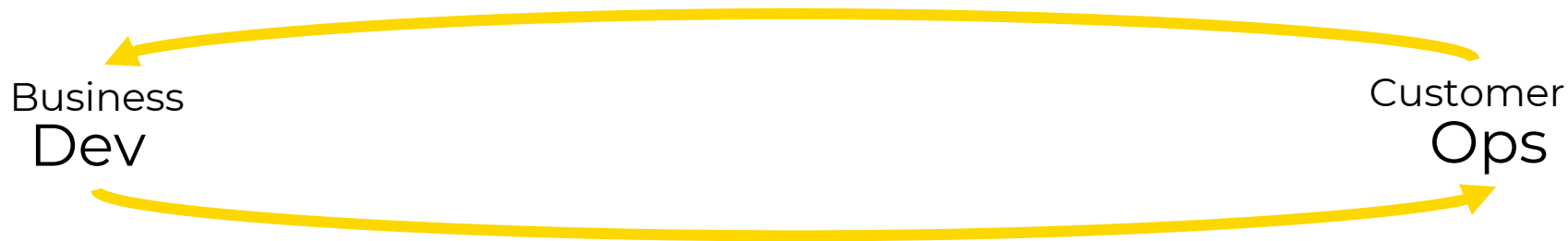
# 1. The First Way: The Principles of Flow

Business  
Dev

Customer  
Ops

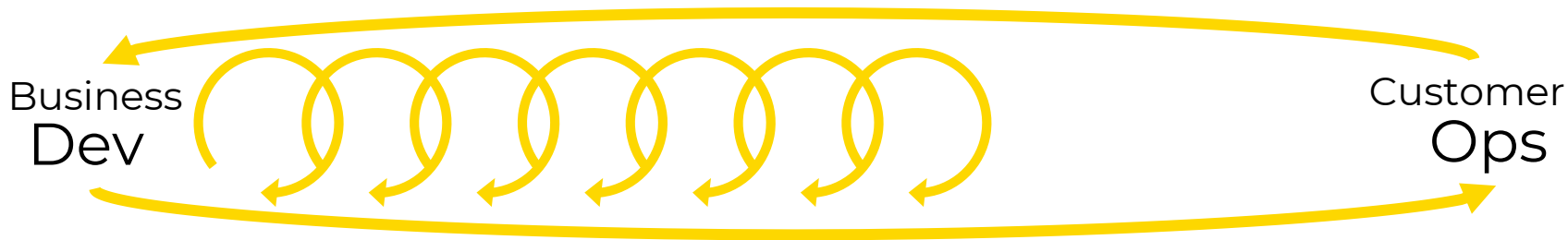


## 2. The Second Way: The Principles of Feedback



### 3. The Third Way: The Principles of Continual Learning and Experimentation

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# One DevOps view

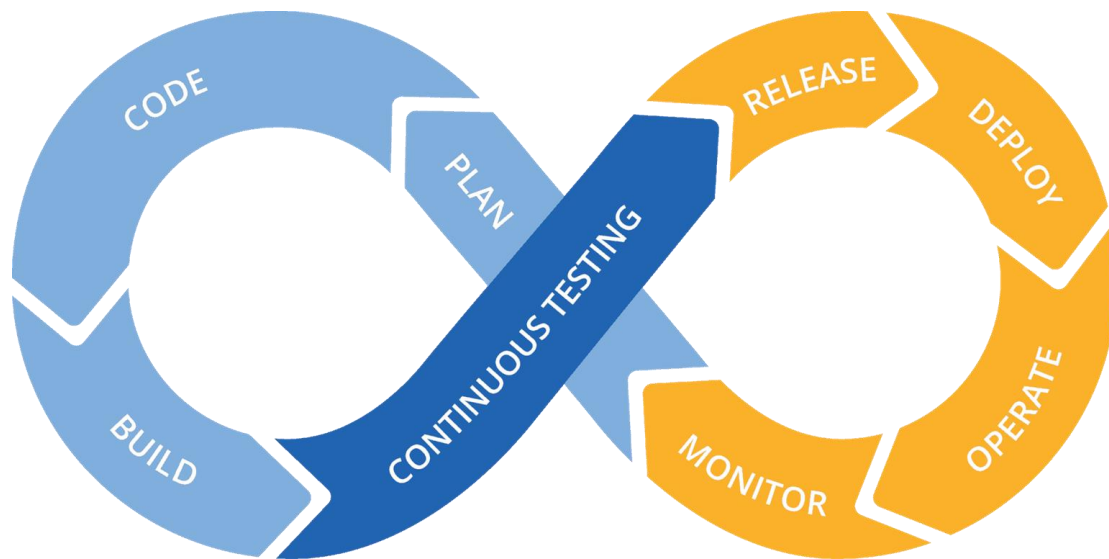
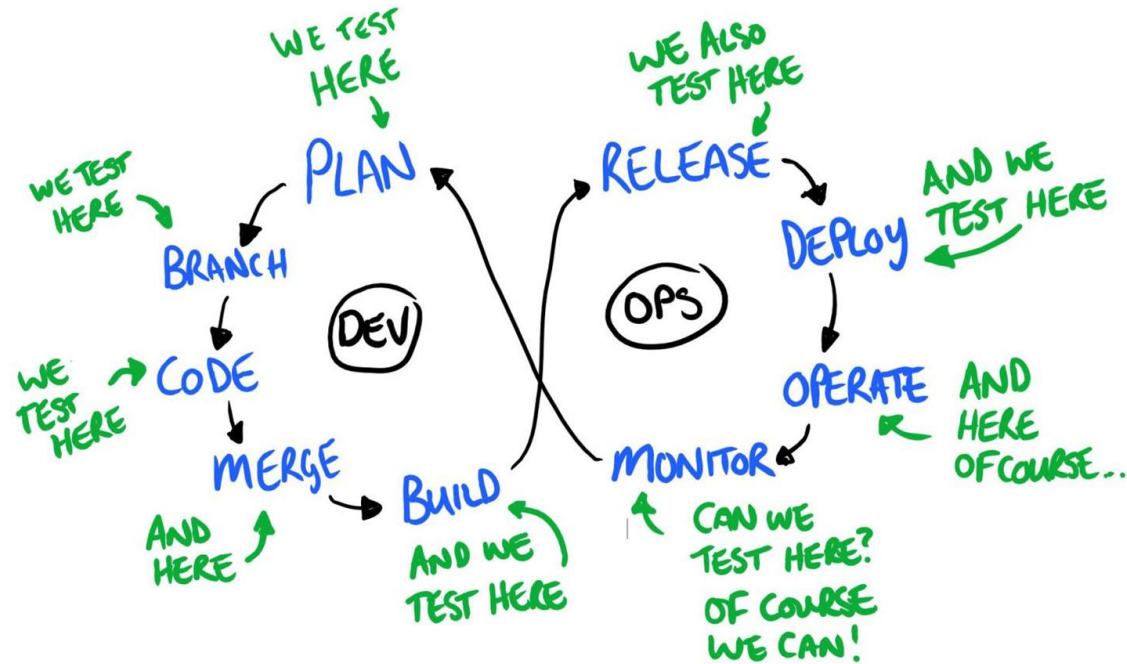


Image source: <https://www.tricentis.com/products/what-is-continuous-testing/>

# My favorite DevOps view



# Testing in DevOps

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Or shall we say Quality Assistance?

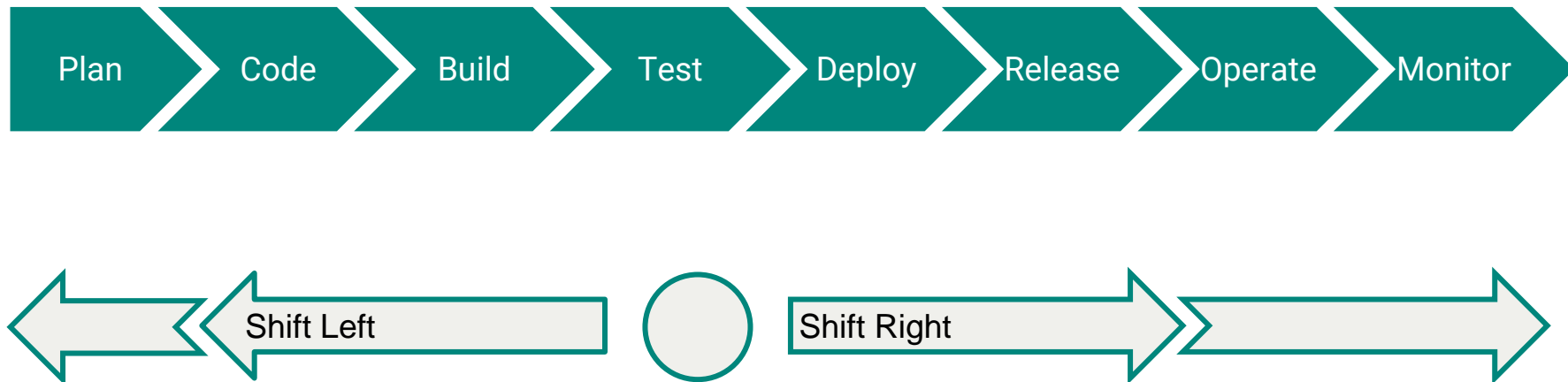


# The development value stream

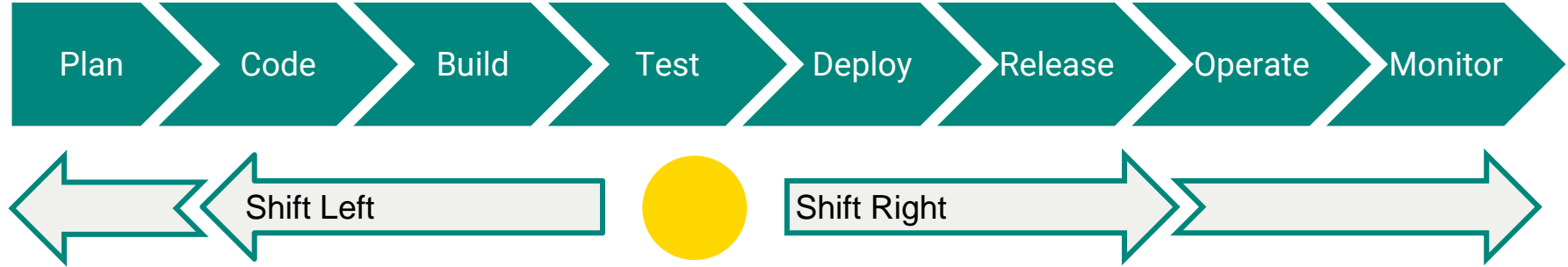




# Testing in the value stream



# Test



## Continuous Testing

**Keyword Driven Test Automation**

**Exploratory Testing and Bug hunting**

**Continuous Non-functional testing**

# Continuous Non-functional testing

## ility (English)

### Origin & history

From the common suffix of various desirable qualities, e.g. [testability](#), [reliability](#).

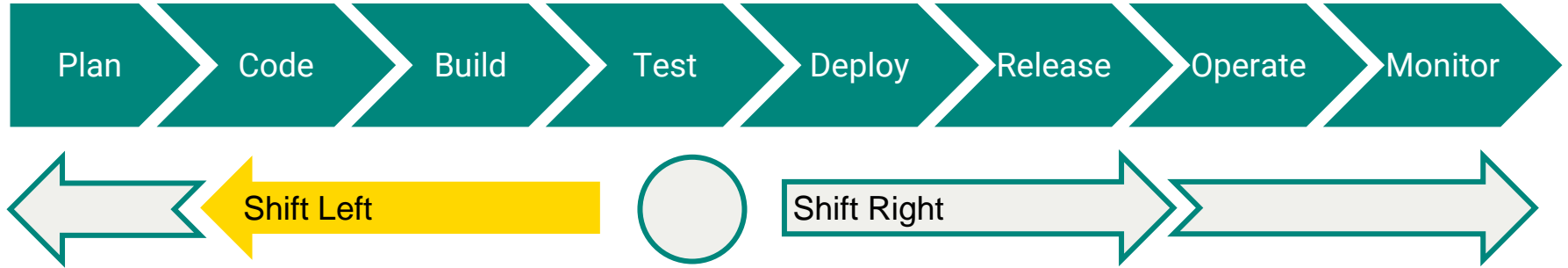
### Noun

**ility** (pl. [ilities](#))

1. (computing) An [abstract quality](#) that good [software](#) should exhibit.

# Observability

## QA during coding



**CI/CD pipeline design**

**TDD/Unit Testing**

**Code Analysis/Lint**

**Static Application Security Testing (SAST)**

# Designing a CI/CD pipeline

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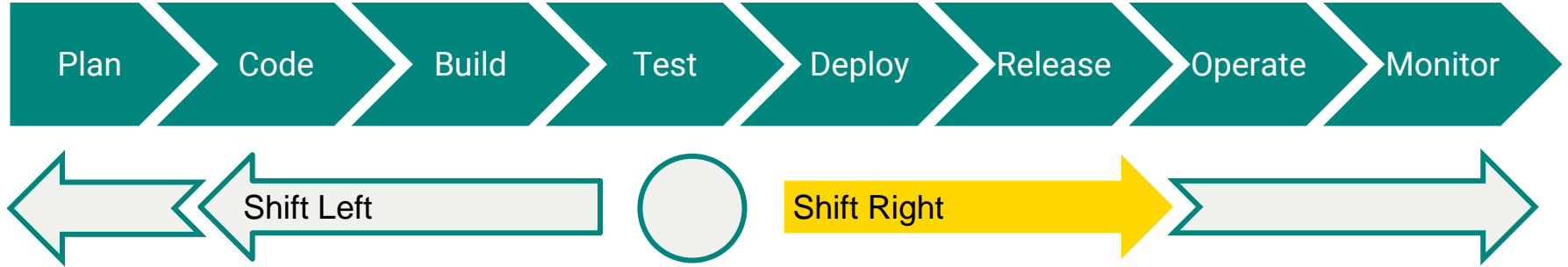
Pipeline game

## Play to learn how to design the right Continuous Delivery pipelines

PLAY FOR FREE

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

## QA in deployment



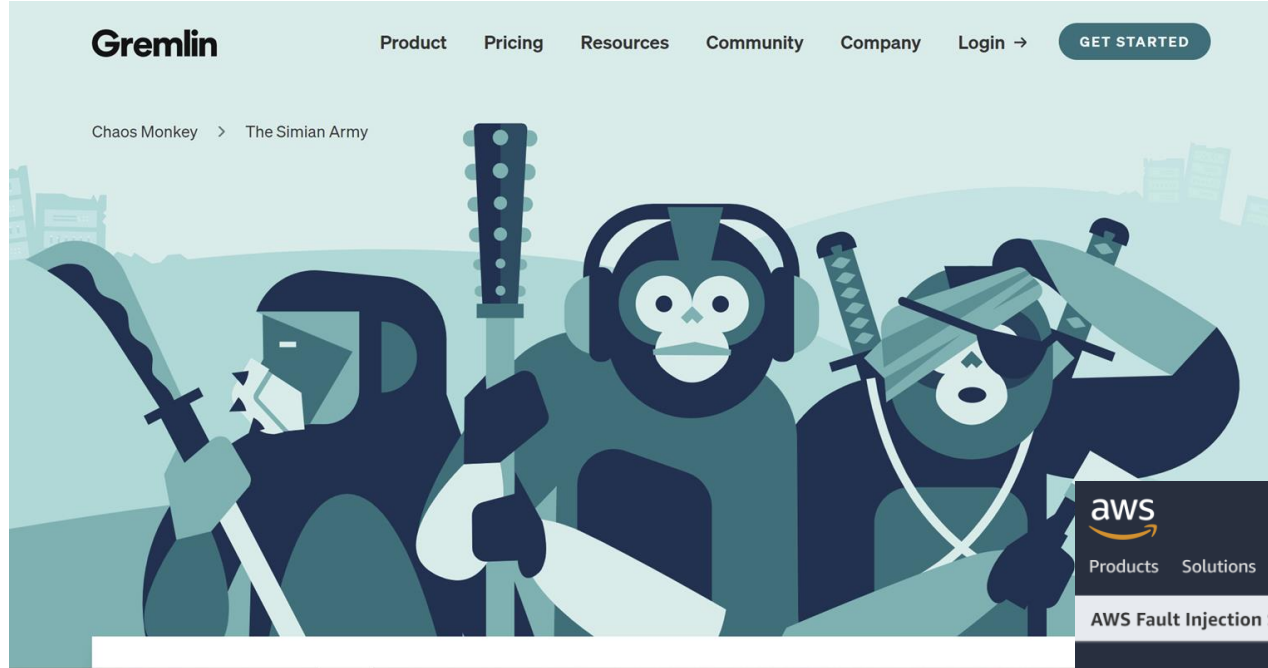
**Deployment automation**

**Acceptance Test on standardized Staging**

**Chaos Engineering**

**Canary Release and Dark Launch**

# Chaos Engineering

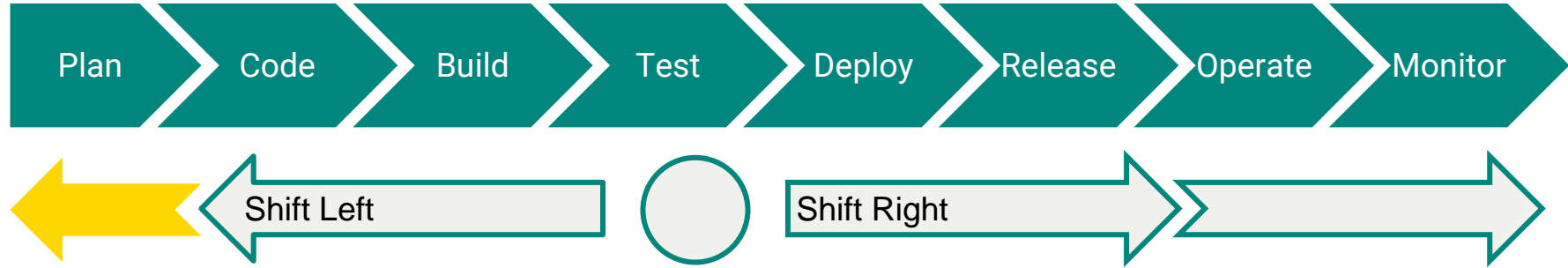


<https://aws.amazon.com/fis/>

<https://www.gremlin.com/chaos-monkey/the-simian-army/>



## Customer Centric QA



## Design Thinking

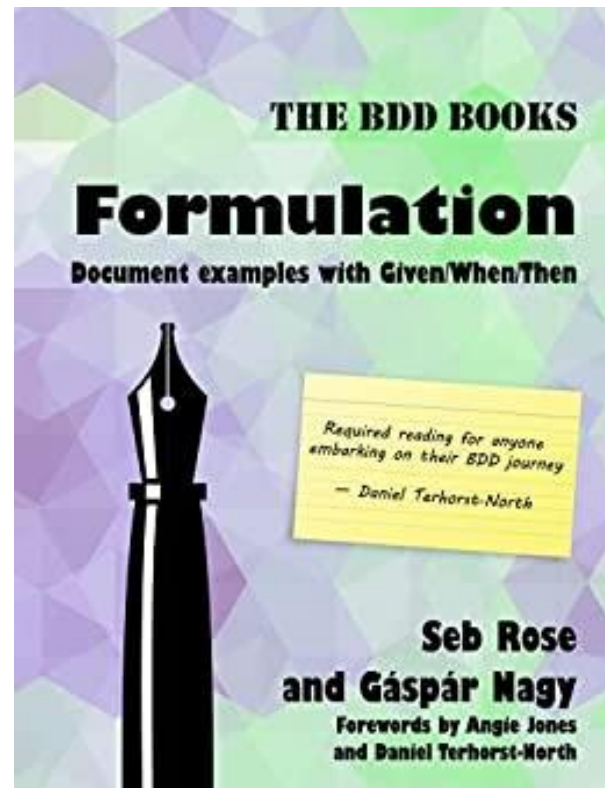
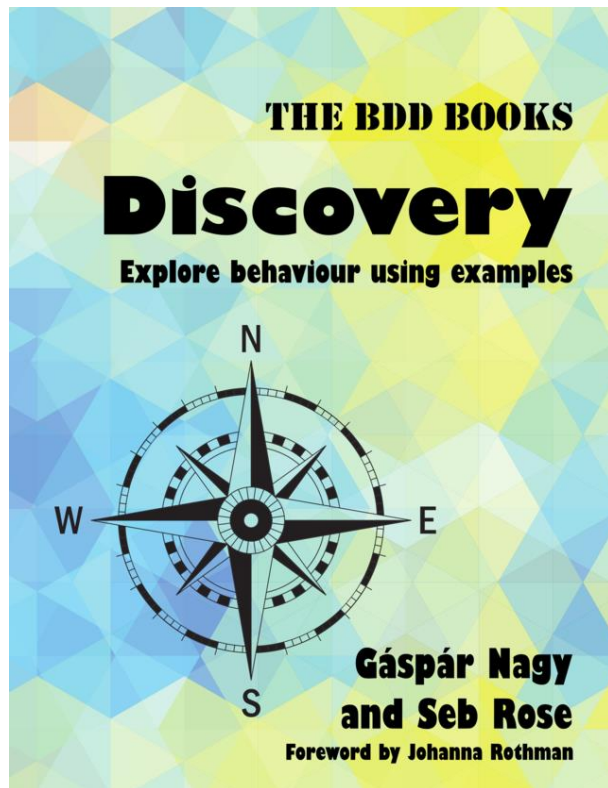
**Personas, Empathy Maps, Customer Journey Mapping**

**Story Mapping, BDD/ATDD**

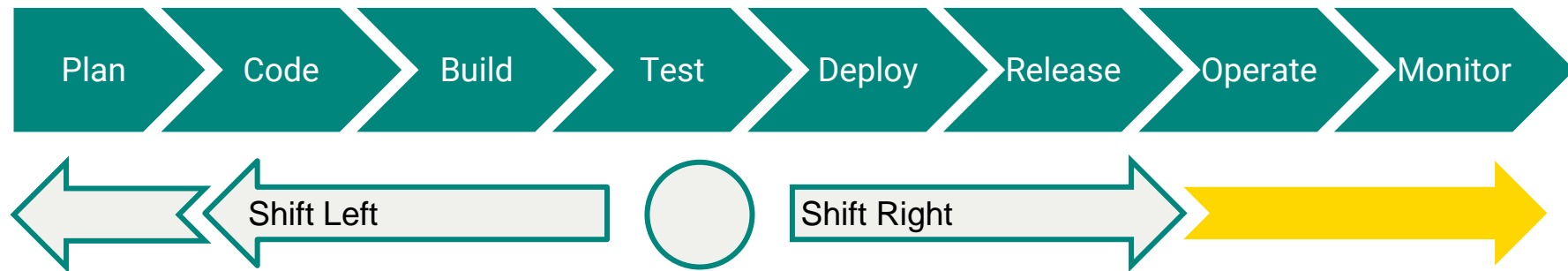
**Design Feedback Through Prototypes**



## BDD books from Gaspar and Seb



## QA in live



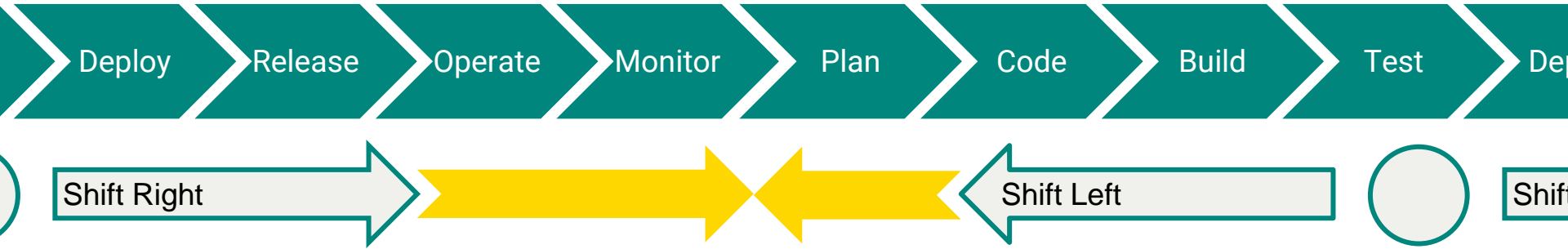
**Telemetry and Automatic Roll-back**

**Observability**

**A/B Testing**

**Social Media Monitoring**

## QA in the infinity loop



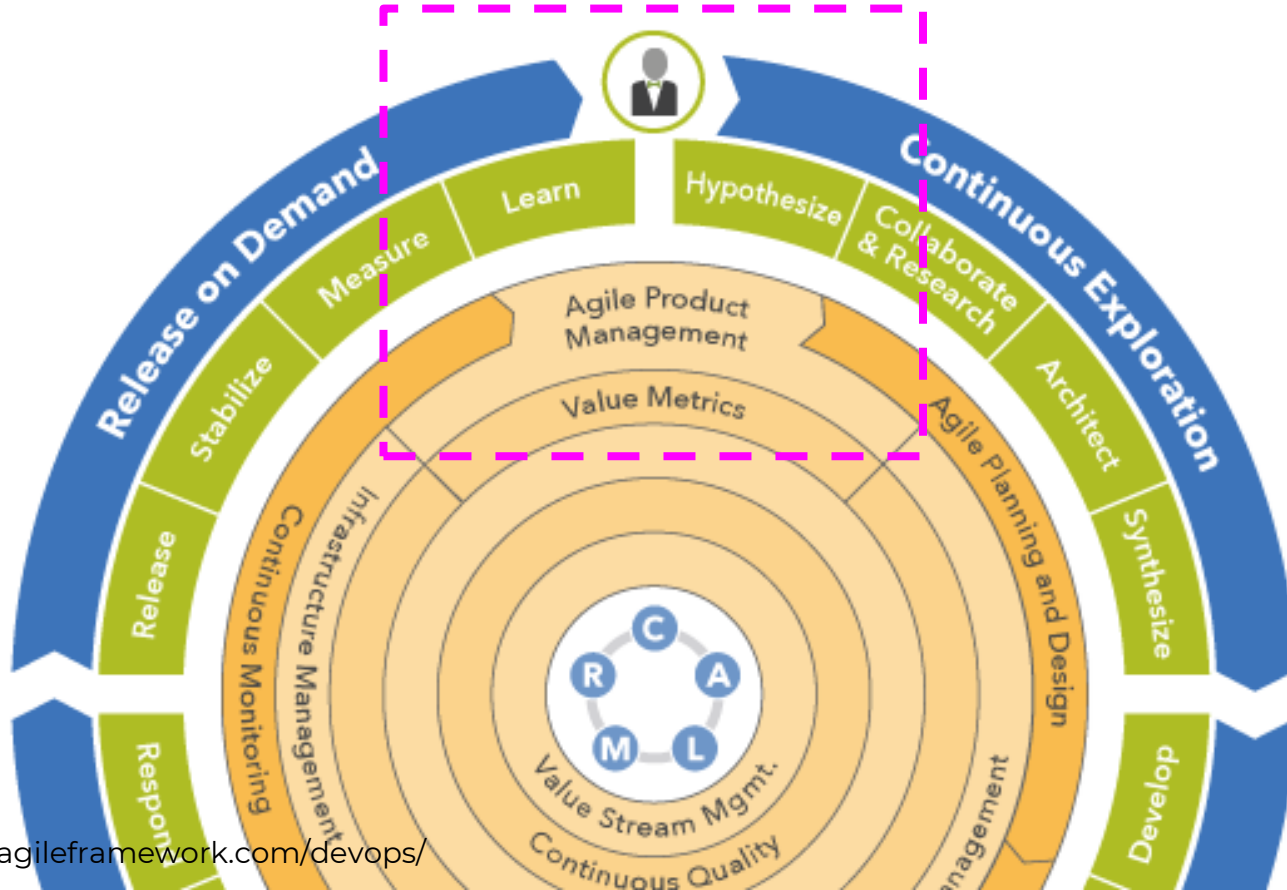
**Benefit Hypothesis and measurement**

**Lean startup thinking**

**Innovation Accounting**

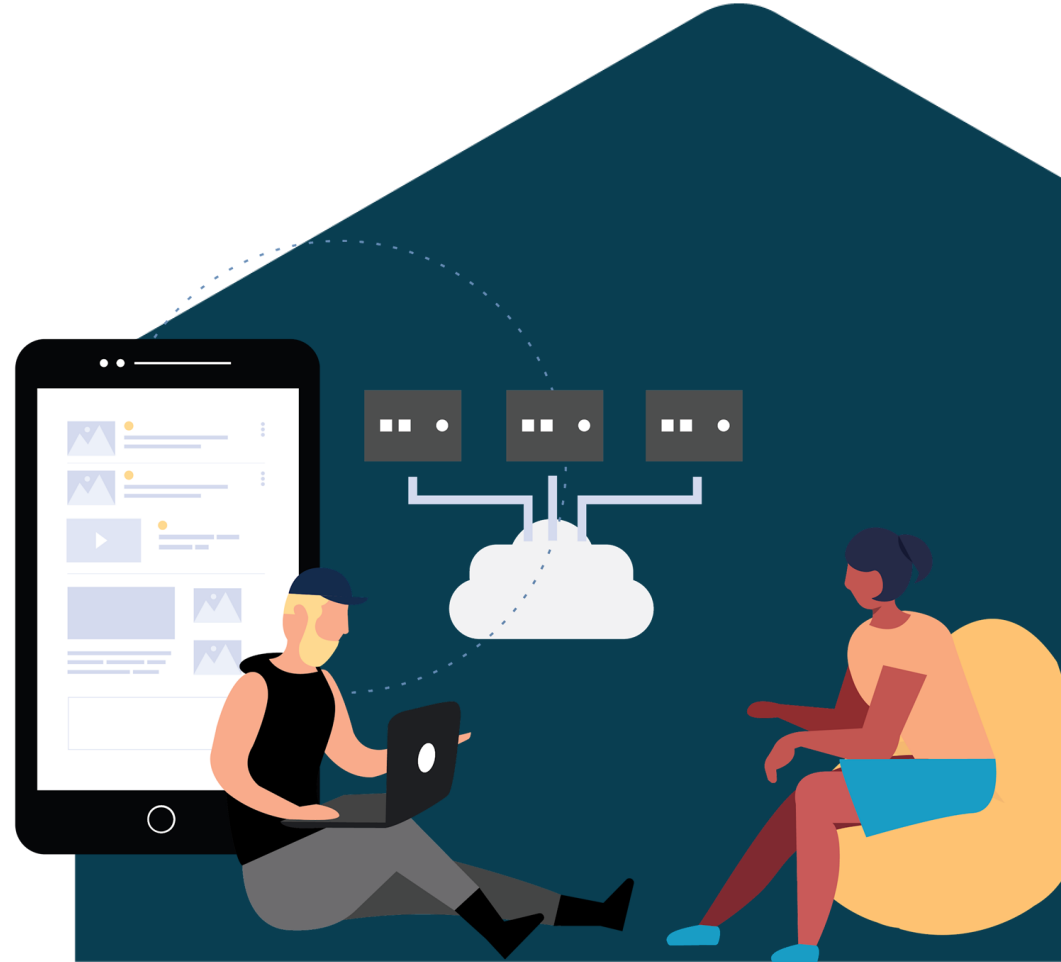
**Minimum Viable Product**

# Continuous Learning and Experimentation



# Take away

**[www.menti.com](https://www.menti.com) :**  
**9328 1285**



- 1. QA still has a role in all the Three ways of DevOps**
- 2. You need to learn a lot of technology and new methods**
- 3. There is a lot more both on the left and on the right**
- 4. Testing is never boring, especially in DevOps!**

# What will you learn from tomorrow?



# Thank you!

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