
DevOps

Concept

Challenges

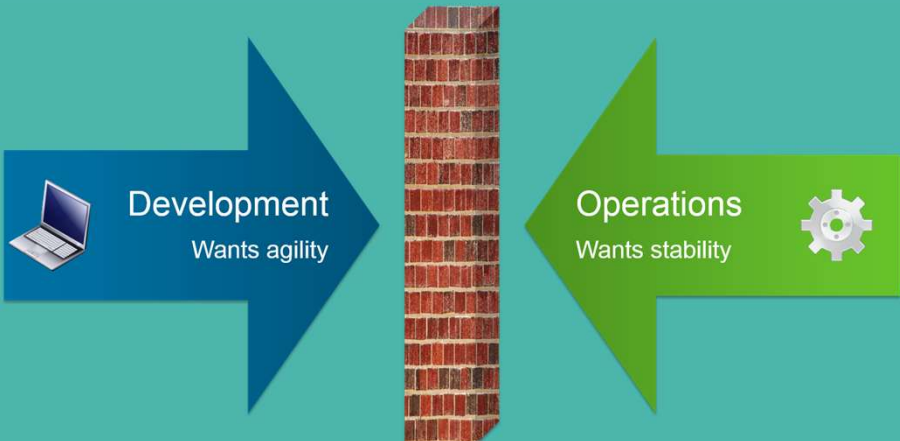
Solutions

Opportunities

Agenda

Introduction

What and Why?



*"Devs are from Venus
Ops are from Mars"*

Steven Haines



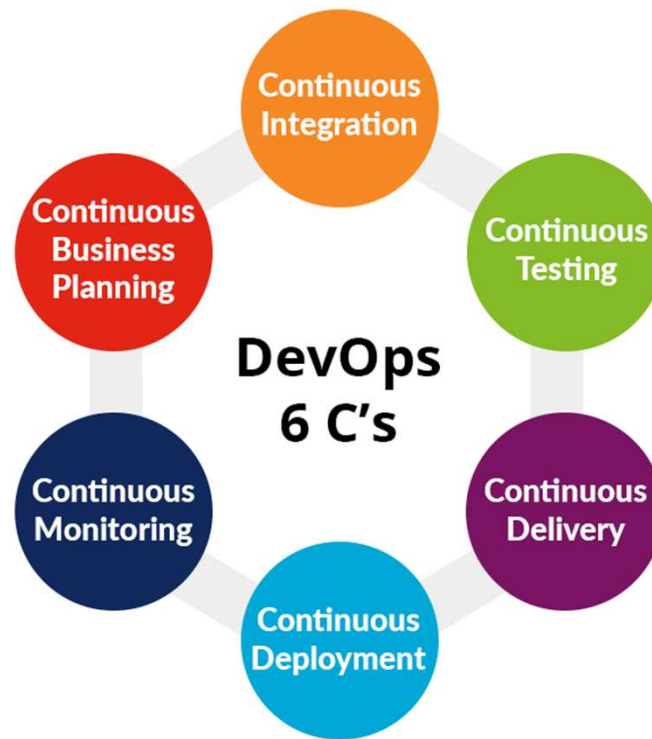
3

Definition

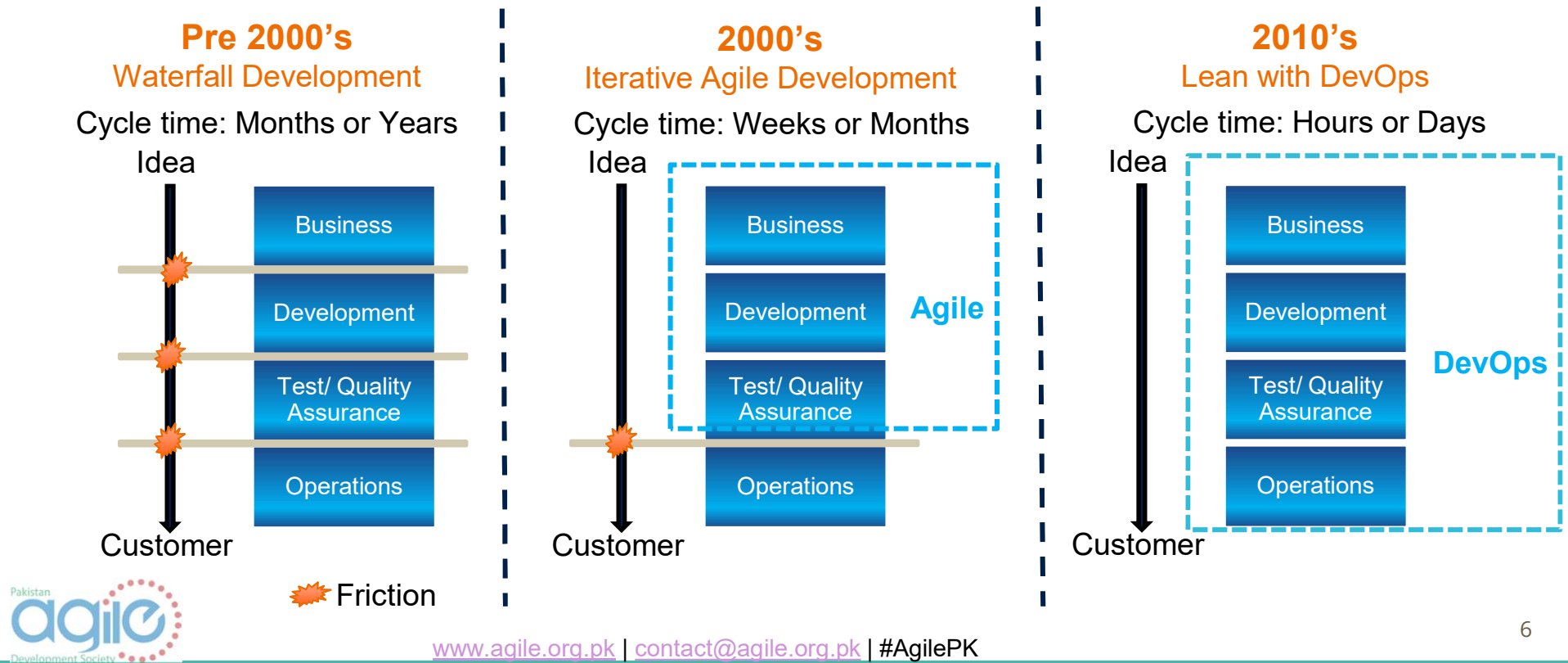
“DevOps is a set of practices and cultural changes — supported by automation tools and Lean processes — that creates an automated software delivery pipeline, enabling organizations to deliver better-quality services and applications faster.”

Forrester

Elaborating DevOps

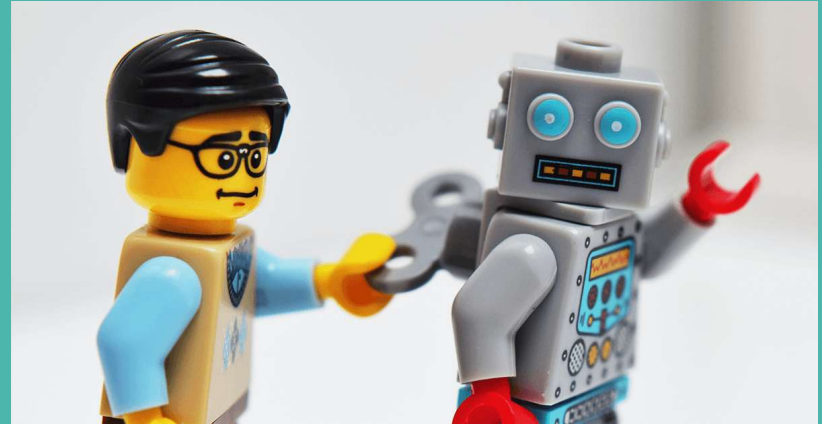


Background



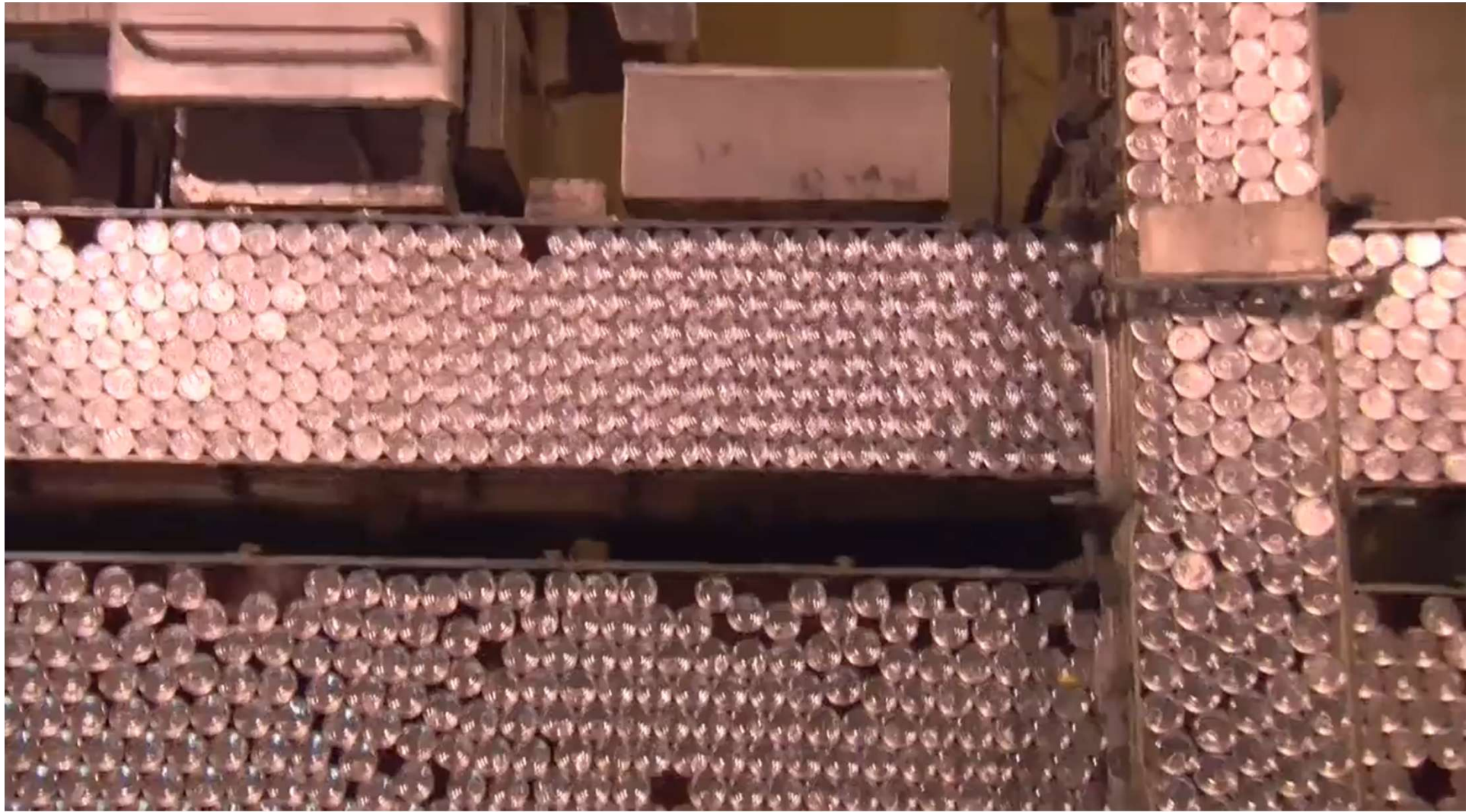
Problem 1

Automating Software Delivery
Pipeline

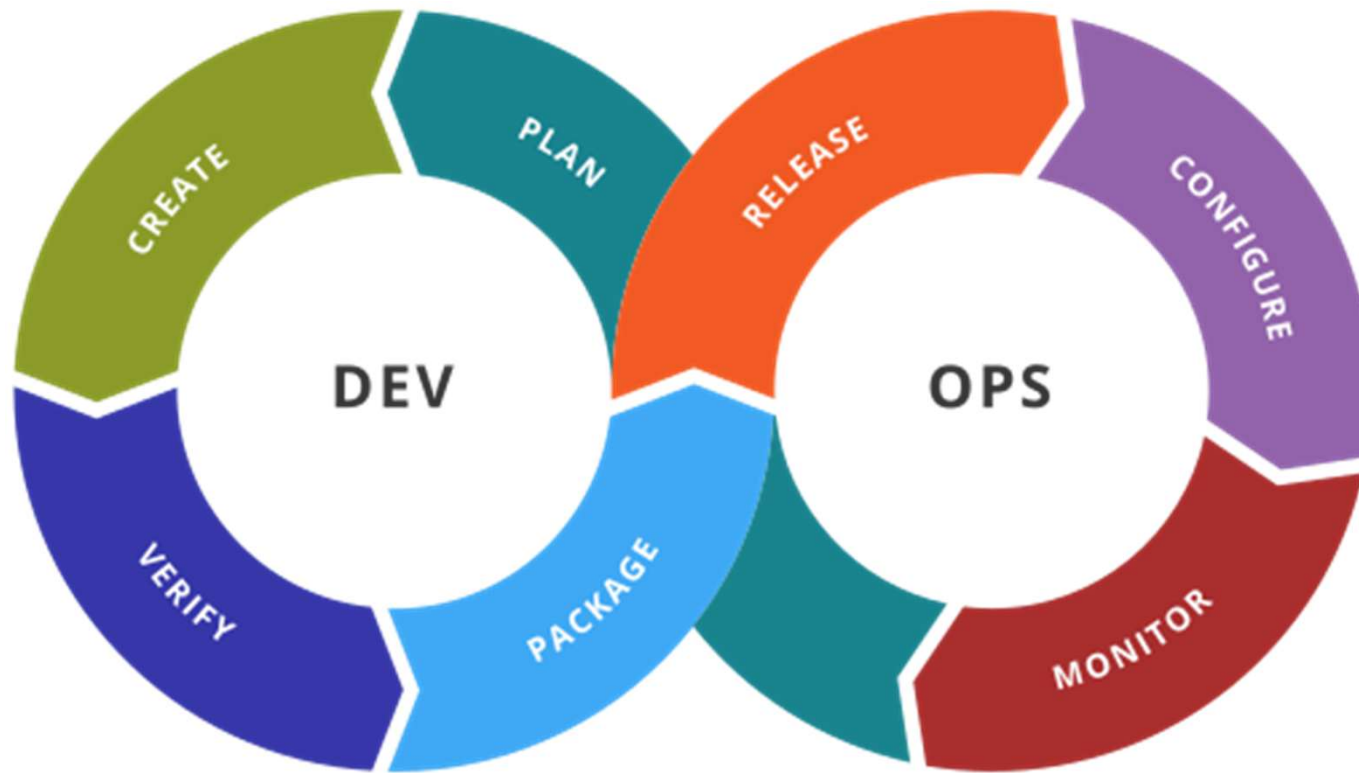


“If you automate a
mess, you get an
automated mess”









Automated Software Delivery Pipeline

Problem Space

A bilities
wareness
pproach

Solution Space

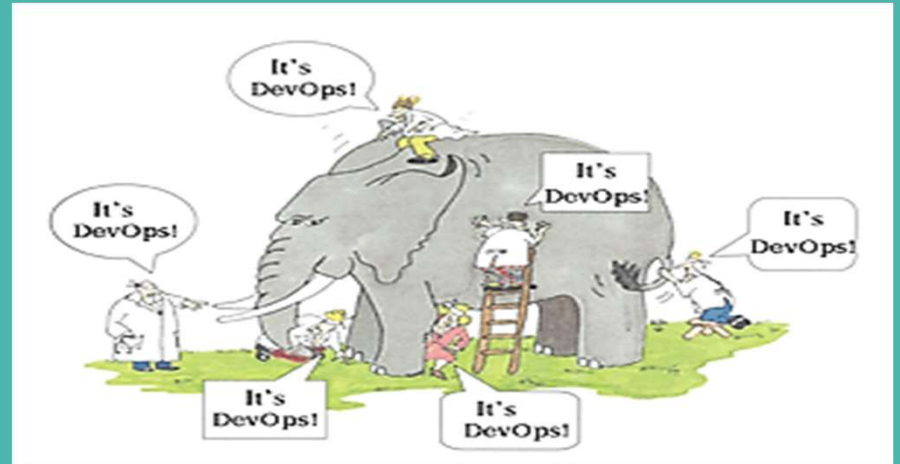
A **Capabilities** Dedicated and Trained
Automation Team

A **wareness** Stakeholder
onboarding, Pilots,
Sessions

A **pproach** Risk based, Right
tools, Intelligent

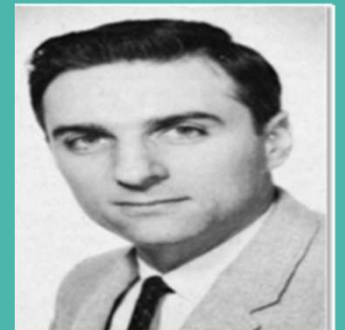
Problem 2

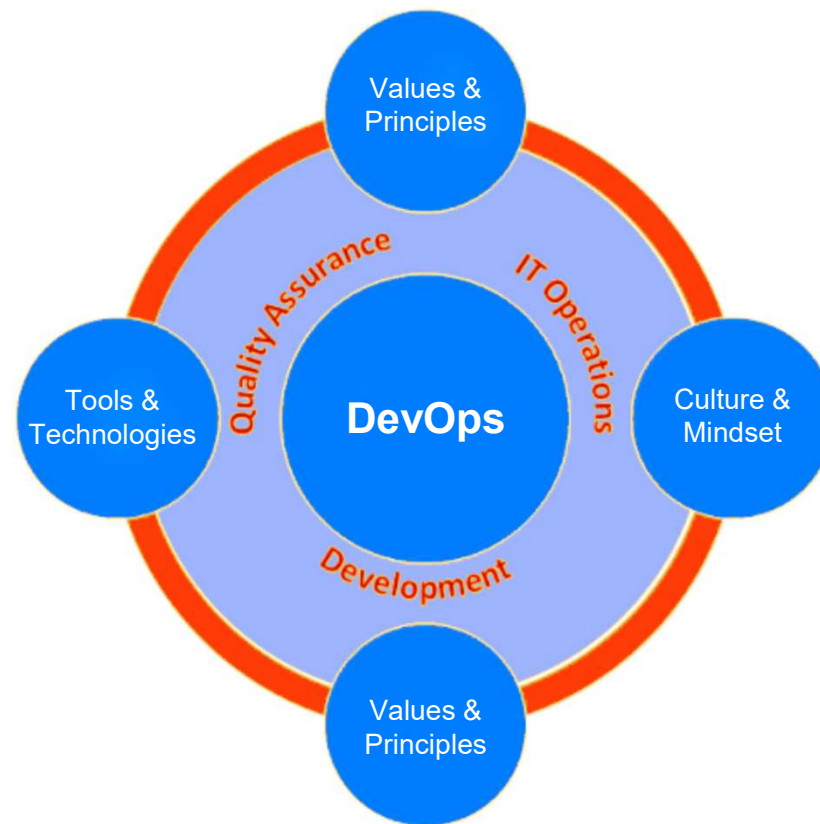
Aligning Various Perspectives



"Any organization that designs a system will inevitably produce a design whose structure is a copy of the organization's communication structure"

Melvin E. Conway





DevOps Perspectives

Problem Space

O rganization
orientation
wnership

Solution Space

Organization
orientation
wnership

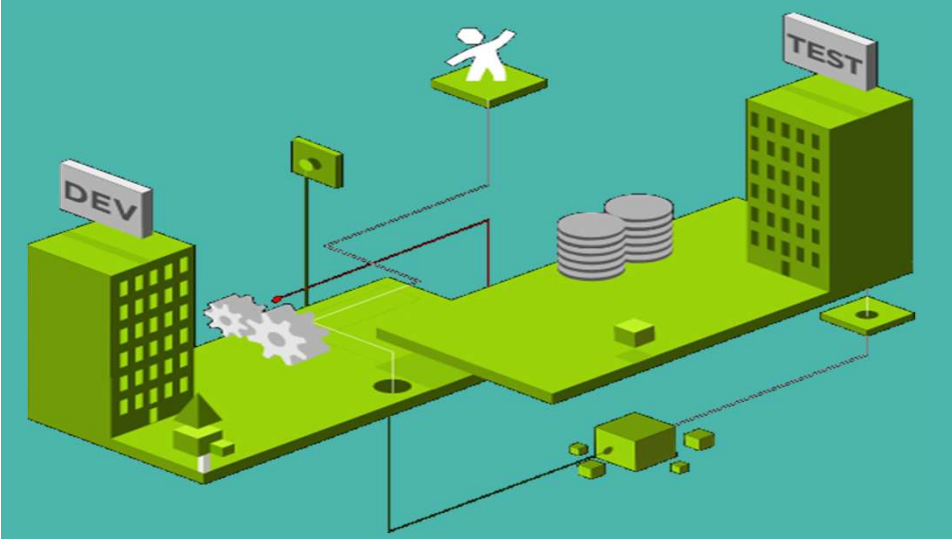
Use DevOps
Recommended
Patterns

Collaboration

Trust,
Empowerment, Self-
managed Teams


Problem 3

Environments Management



"Move fast with stable infrastructure"

Mark Zuckerberg





Environments Management

Problem Space



nfrastructure

ntegration

solution

Solution Space

Infrastructure Plan, Budget, Codify

Integration Auto-triggering, Rollback, Alerts

Solution SREs, Synchronization, Config Management

Problem Checklist



Automating Software Delivery Pipeline



Aligning Various Perspectives



Environments Management

Opportunities

Faster and Reliable
Development and Delivery



"You build it, you run it"

Werner Vogels



Success Stories



400-800 devs at any given time
Supporting 10 million lines of code
Only 2 releases per year



U.S. Citizenship
and Immigration
Services

Receives and processes 6 million applications a year
2000 IT Employees
\$500 million IT budget

LLOYDS
BANKING
GROUP



Lloyds Banking Group can trace its history back to 1765 – no company is too old to implement a DevOps model! Fintech companies are disrupting the financial services industry – reaching younger customers, developing new payment methods, and quickly reacting to changes to the market. Traditional banks don't want to be left behind.

Reasons





50+ daily

Every 11.7
secs



<60 Secs

**How often do the
high performing
organizations
deploy their code
now a days?**

2017 DevOps Report for High Performers



Frequently Asked Questions

- Is DevOps only for companies with cloud products?
- Is DevOps all about implementing tools and technologies?
- Does placing a new team between Dev and Ops will ensure DevOps?
- Should we overhaul our entire Ops tools and technology stack immediately to do DevOps?
- Does DevOps require co-location of Dev and Ops teams?

Get Started Today

Long Journey
Ahead

Better Start
Today

Do you need
help?



DevOps is not a goal but a never ending process of continual improvement – Jez Humble

Thank You!