



# DevOps to Enterprise Agile

# Marcel van Oosterwijk

## Presales "Application Delivery Management" at HP

### 18 years of quality management

*Test management, test process improvement*

*Performance testing, test automation*

TPI  
Next

### 12 years in Sweden

**Happily Married™, 3 kids**





**”Software is eating the world!”**  
– Marc Andreessen



# The App Economy

Digital Business demands competitive agility. . .

Old

New

TOWER  
RECORDS

This means **building, testing, and releasing** quality software **faster** and more **frequently**.

FLIX

Every business is a software business today!

# Fear the IT Black Swan

**A single line of code change can shut down your business**



**Closed for  
business !**

NEWS

RBS IT failure to cost millions in huge fine

Canadian manufacturing rises to 11-month

## RBS IT failure to cost millions in huge fine

November 3, 2014, 10:55 AM CST | Written by Veronica Cruz | Economics / Finance News

The Royal Bank of Scotland (RBS) faces a multi-million pound fine from the UK regulator for an IT failure that left tens of thousands of customers unable to access their funds, according to a report.

The IT breakdown, which started on June 19th, 2012, affected computers run by NatWest, Ulster Bank and RBS. The bank applied a software update to its payment processing system.

# As business pushes the pace

App teams struggle...



1

**Slow time to market**

Long app release cycles

2

**Poor user experience**

Low application quality

3

**Poor predictability**

No end to end visibility

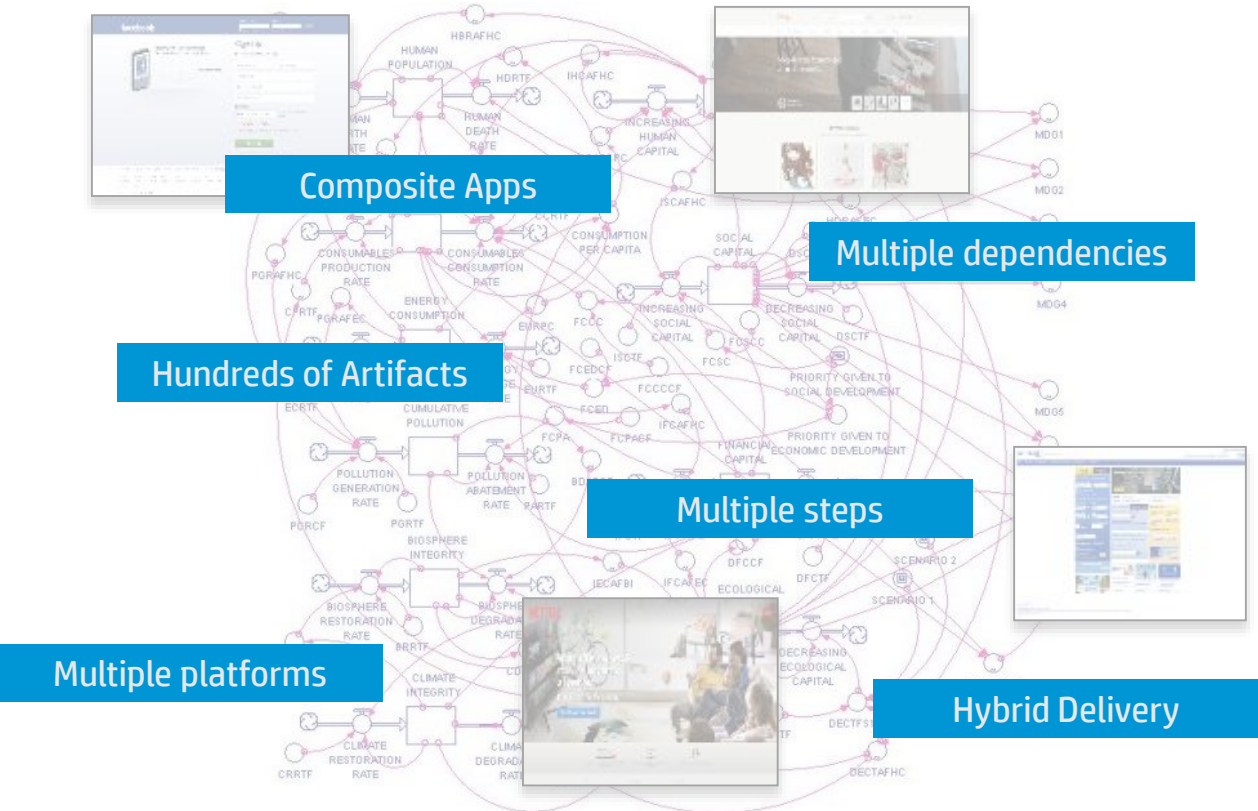
4

**High costs**

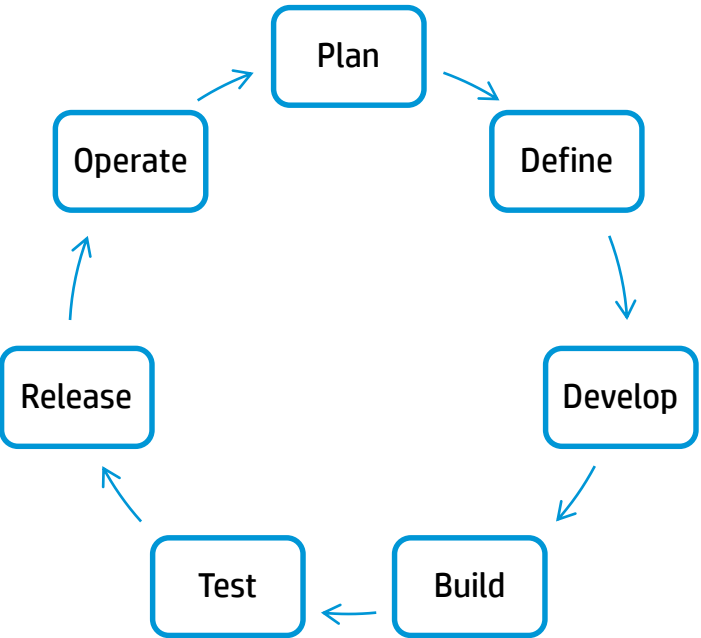
Poor resource utilization,  
rework cycles



# Applications are complex ...



# Increasingly complex...



Siloed Teams	Complex Process	Complex Environments
Dev Test Ops		Dev QA Prod

### Multiple Tools





# However, business still demands...



1

**Faster time to market**

Shorter app release cycles

2

**Excellent user experience**

High application quality

3

**Predictable application  
release cycles**

End to end visibility

4

**Reduced cost of application  
delivery**

High resource utilization,  
reduced rework cycles



# When it works well...

Amazon.com

Code  
deployed  
every 11.6  
seconds

The screenshot displays the Amazon.com website interface for the Action Sports category. At the top, the Amazon logo is on the left, and navigation links for 'Today's Deals', 'Gift Cards', 'Sell', 'Help', 'Your Account', and 'Wish List' are on the right. Below the logo, there are links for 'Departments', 'Fire & Kindle', and 'Prime'. A search bar is prominently featured in the center. To the right of the search bar, there are promotional banners for 'AMAZON PRIME SEASON' and 'powered by GEICO Watch now for free'. The main navigation bar includes categories like 'Sports & Outdoors', 'Athletic & Outdoor Clothing', 'BMX', 'Skateboarding', 'Skate Shoes', 'Skating', 'Surfing', and 'Swim & Dive'. The 'Action Sports' section is highlighted, with a large banner image of a skateboarder performing a trick. The banner text reads 'GO BIG or GO HOME Gear Up in the Skateboarding Store'. To the right of the banner are several product recommendations: 'Smith Optics Sunglasses', 'Go Big or Go Home', 'Madd Gear Scooters', 'Power Pockets', and 'HS Skate'. Below the banner is a 'PADDLEBOARD BUYER'S GUIDE' section with an image of a paddleboard and a 'Learn more' link. The 'Featured Categories' section at the bottom includes 'SKATEBOARDING', 'SCOOTERS & EQUIPMENT', and 'BMX', each with a small image and a list of sub-categories.



# The challenge of Agile at scale

Agile  
means **speed** and  
**flexibility**...



...but was developed for  
small teams...

...leaving the agile teams to  
**hurry up and wait**  
for the rest of your enterprise  
to catch up



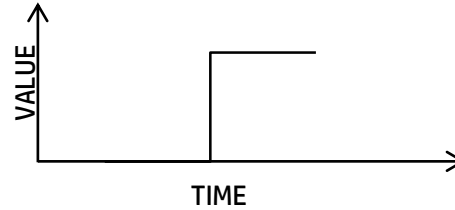
PORTFOLIO LEVEL

PROGRAM LEVEL

TEAM LEVEL

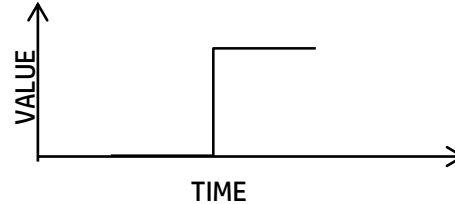
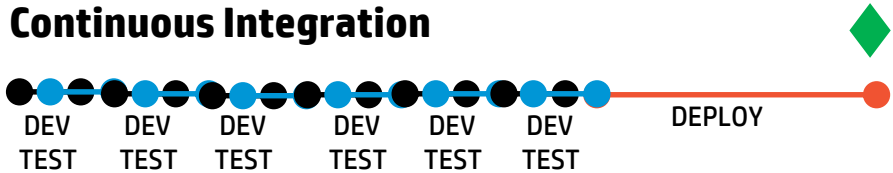
# The idea of agile delivery

## Traditional



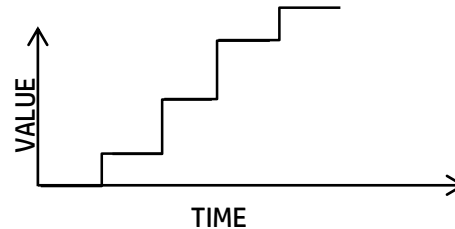
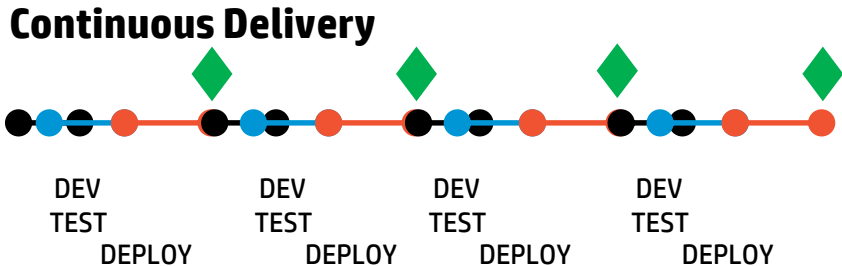
**Long time to value**

## Continuous Integration



**App ready waiting to be deployed**

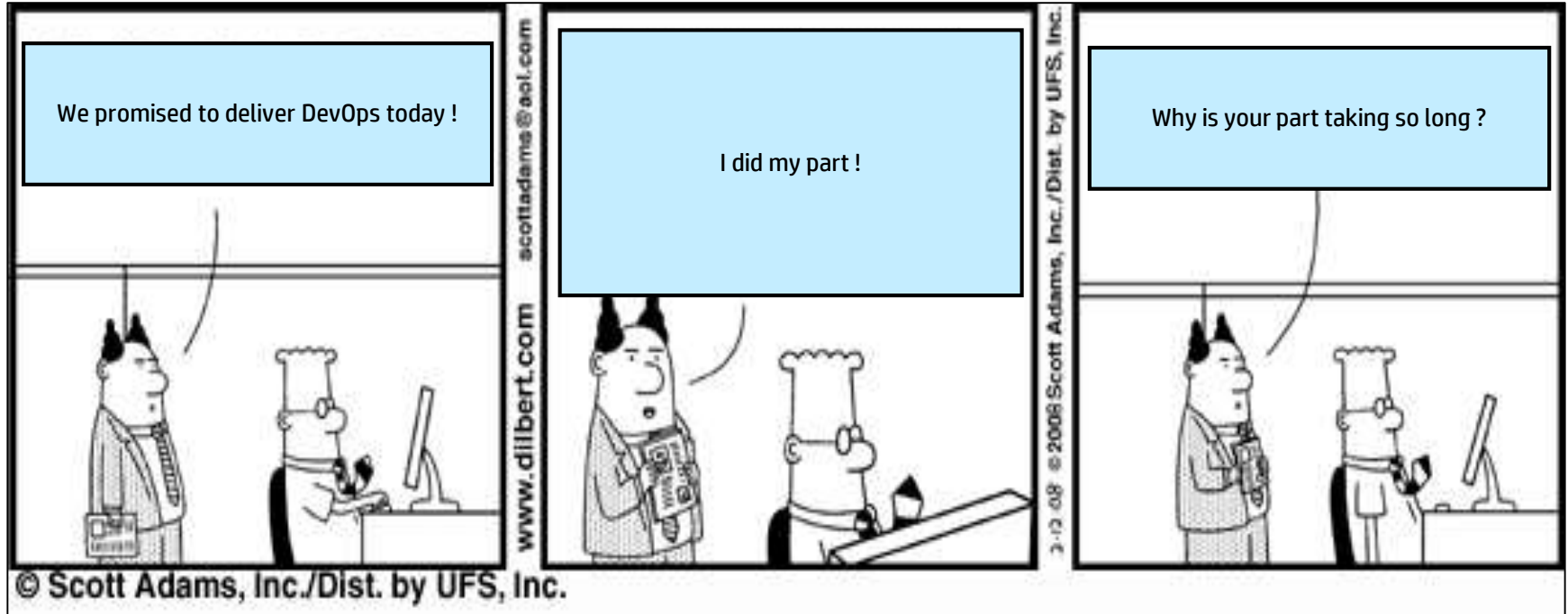
## Continuous Delivery



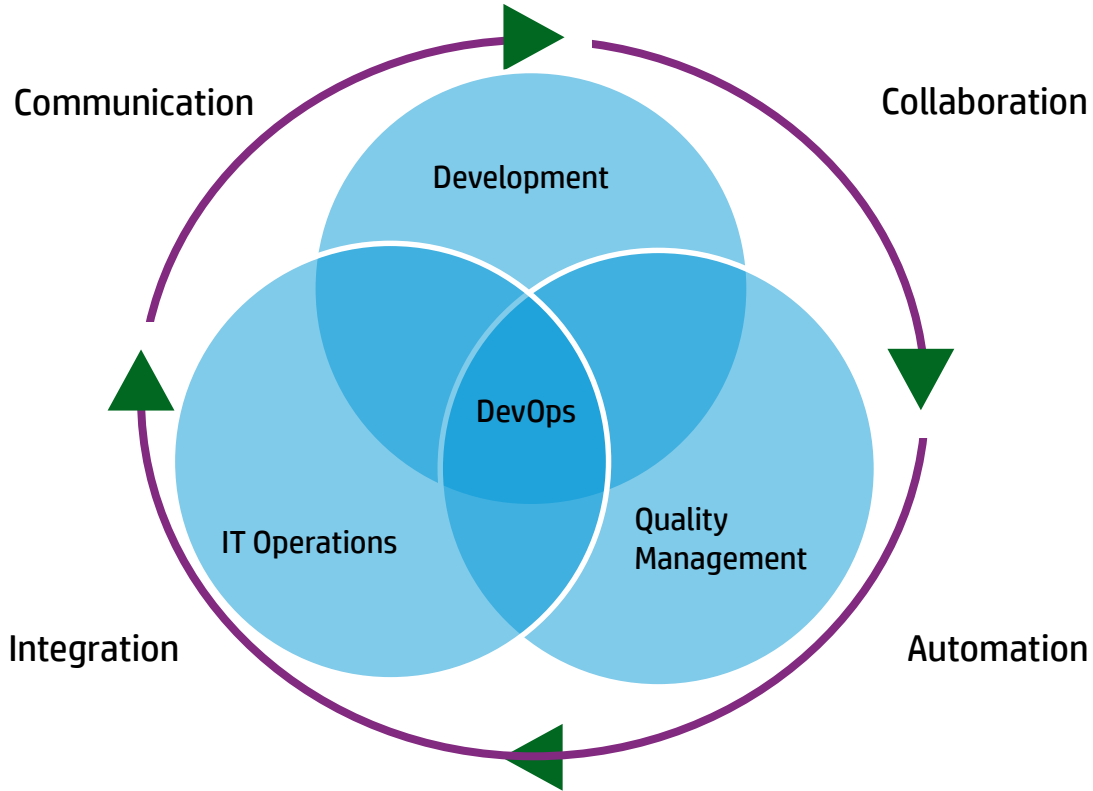
**Respond quickly to business needs**



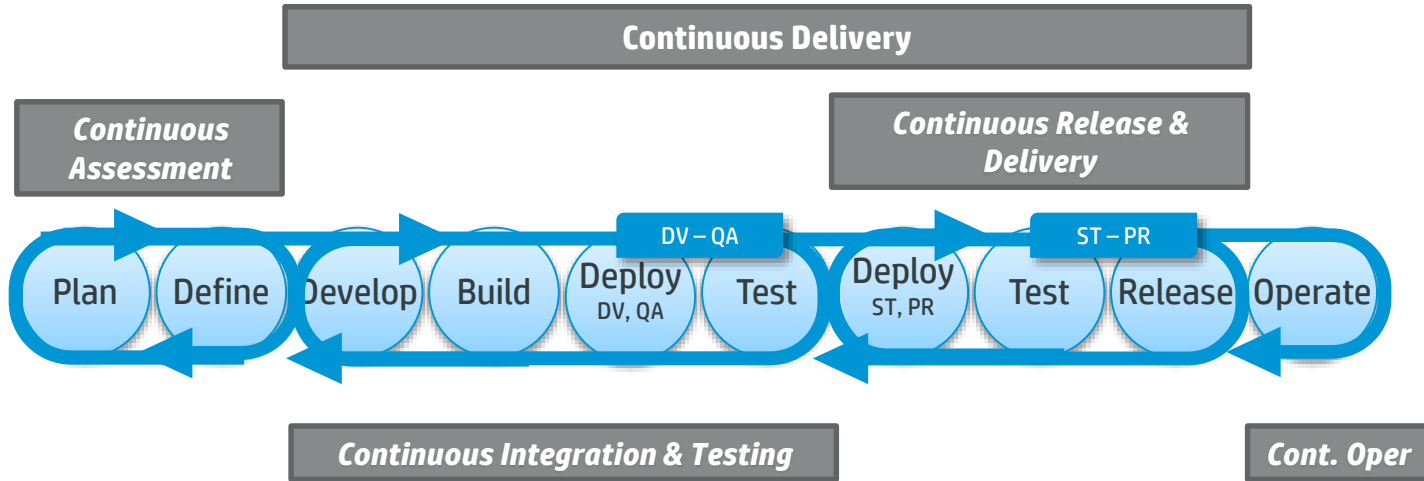
# DevOps



# DevOps



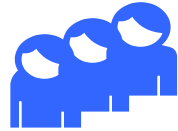
# DevOps integrated process



# The Delivery-Centric Organization



Servant-  
Leadership

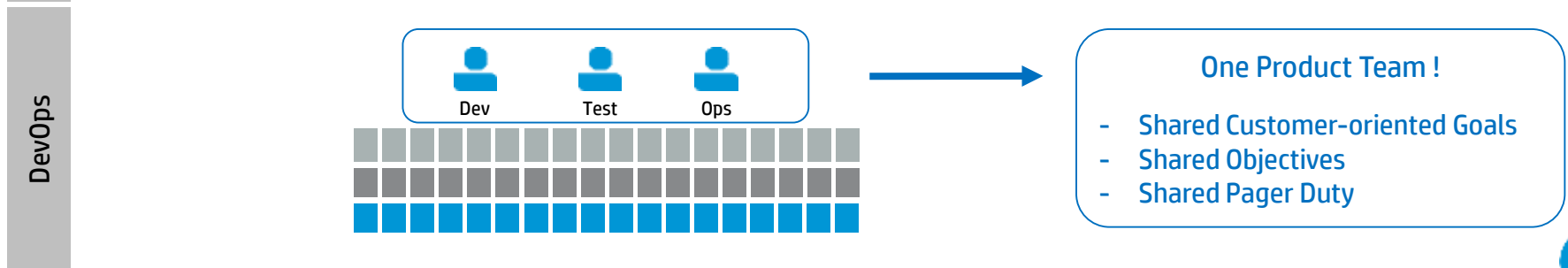
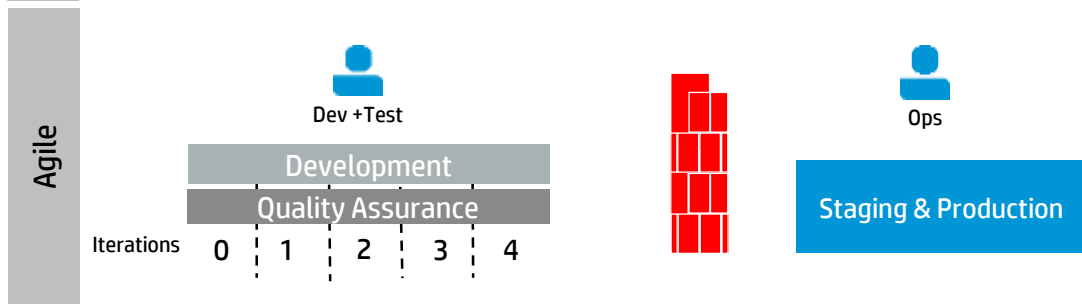
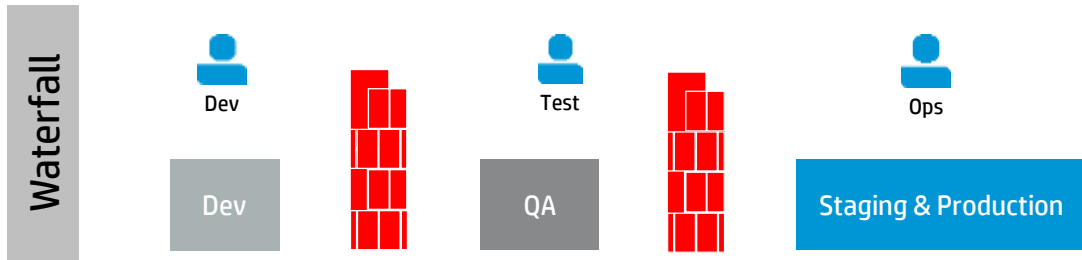


Communities of Practice

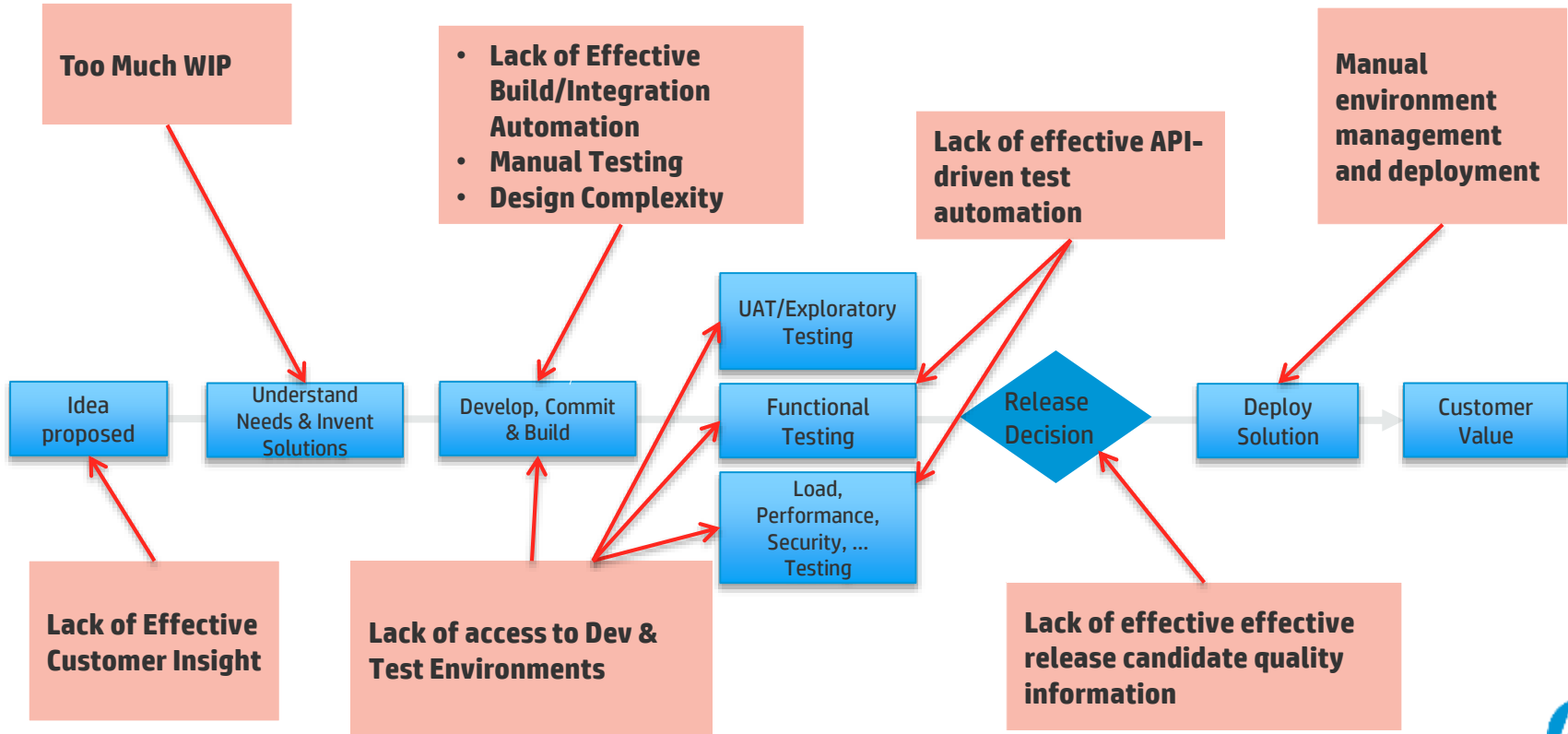




# From Agile to DevOps

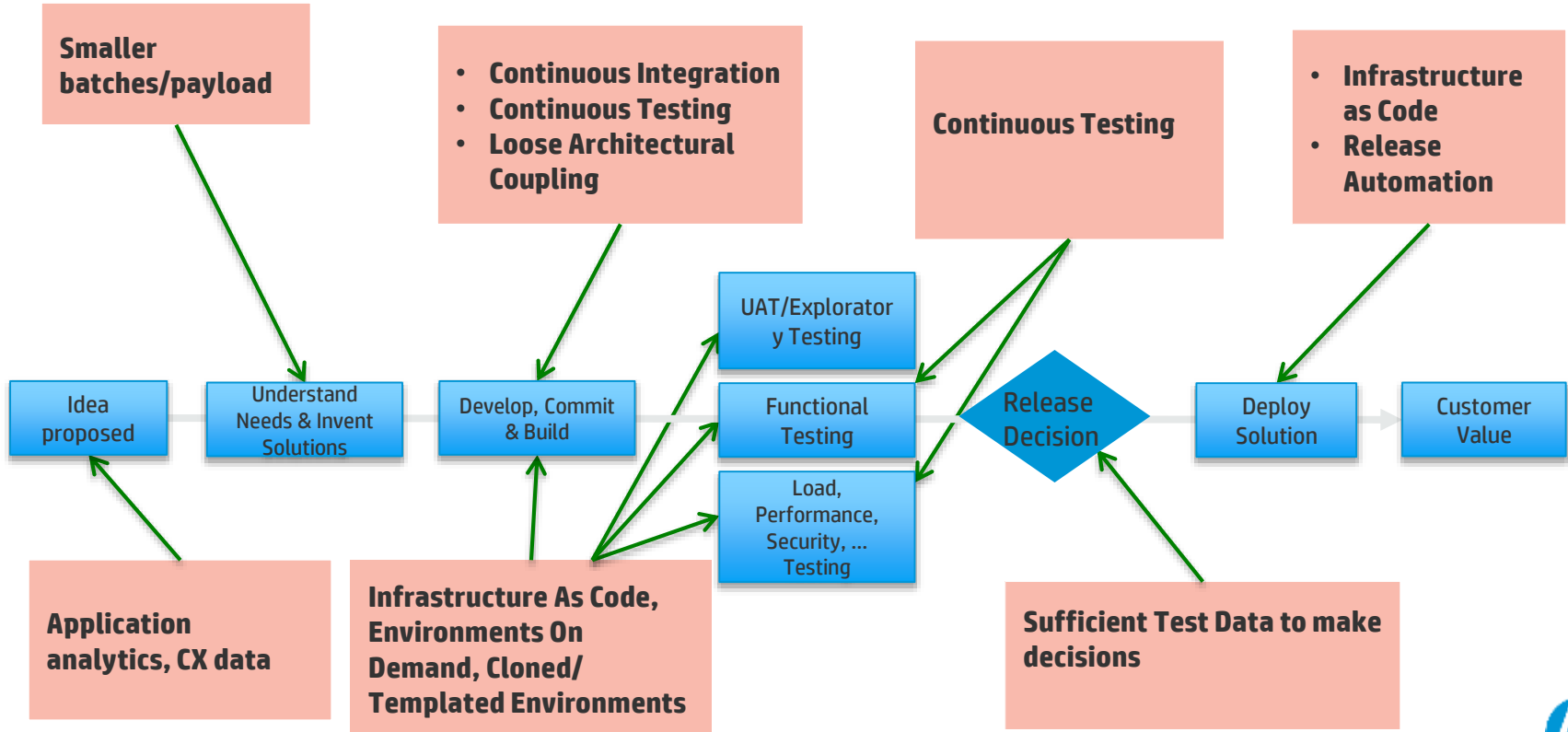


# Typical Bottlenecks

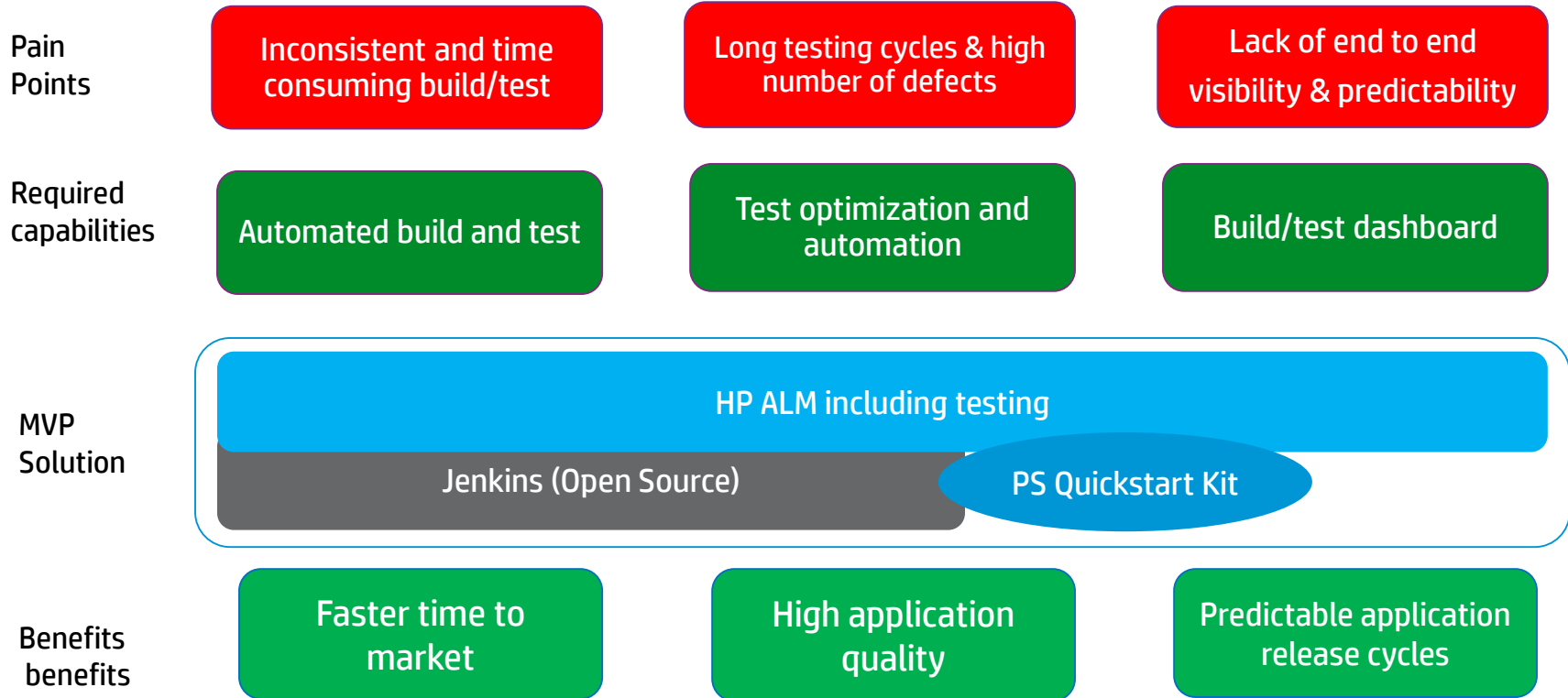


# Typical Enablers

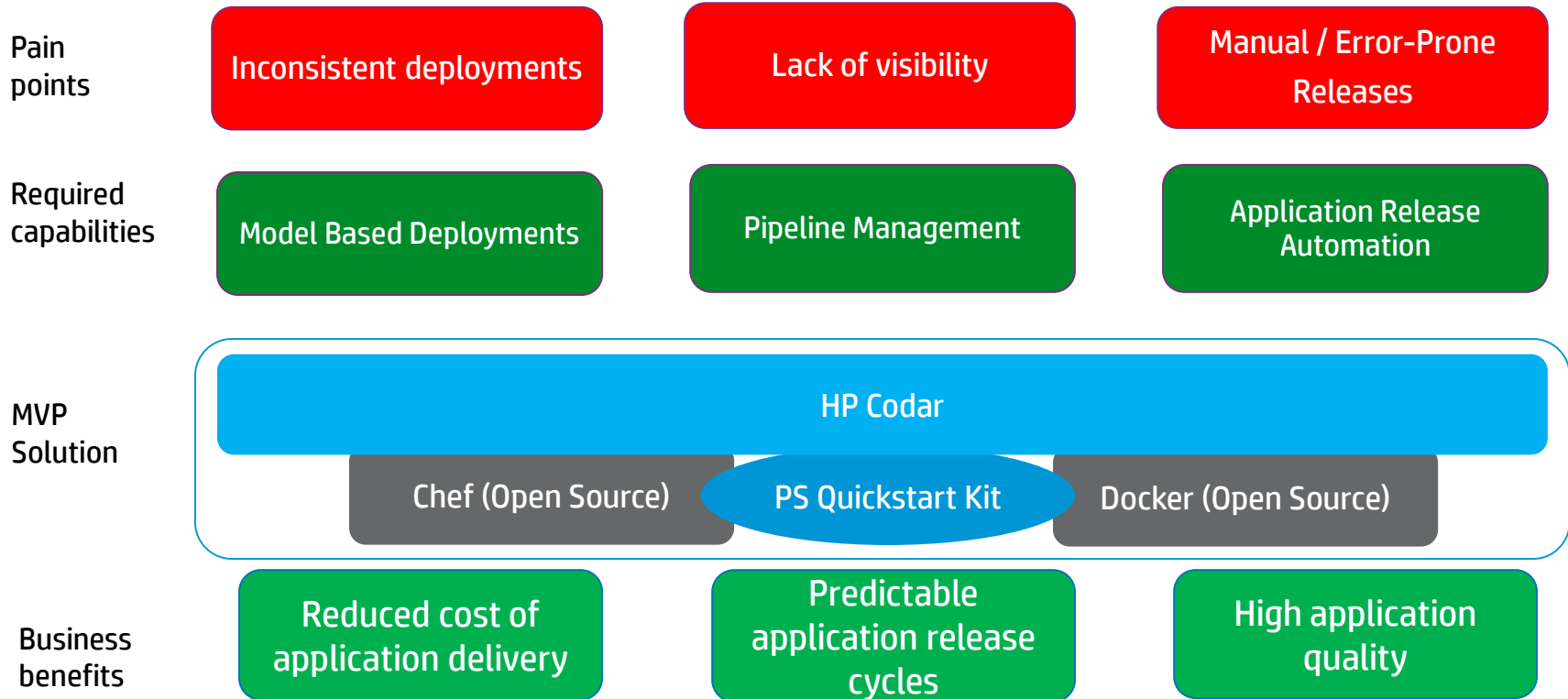
Everywhere: Cross-functional teams, simplified roles



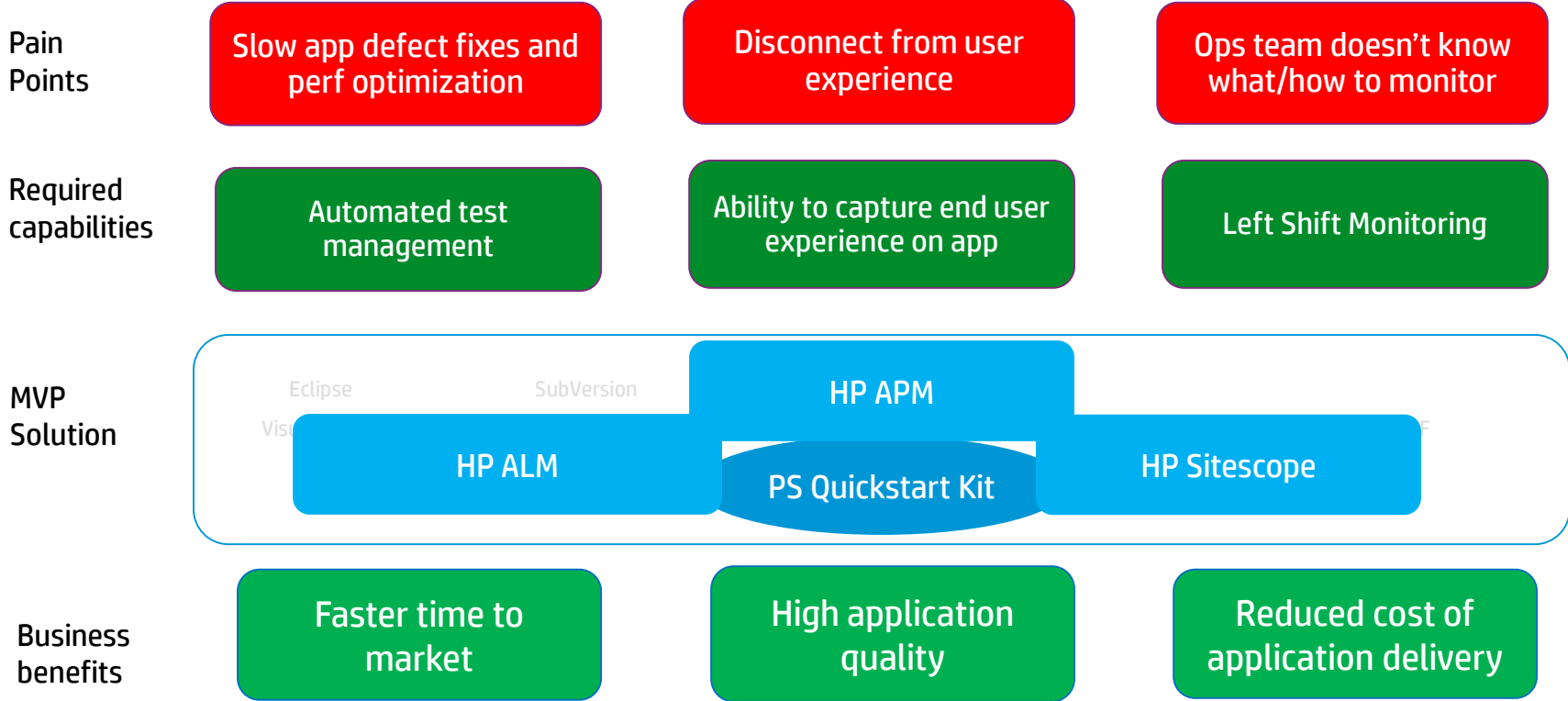
# Continuous Integration and Continuous Testing



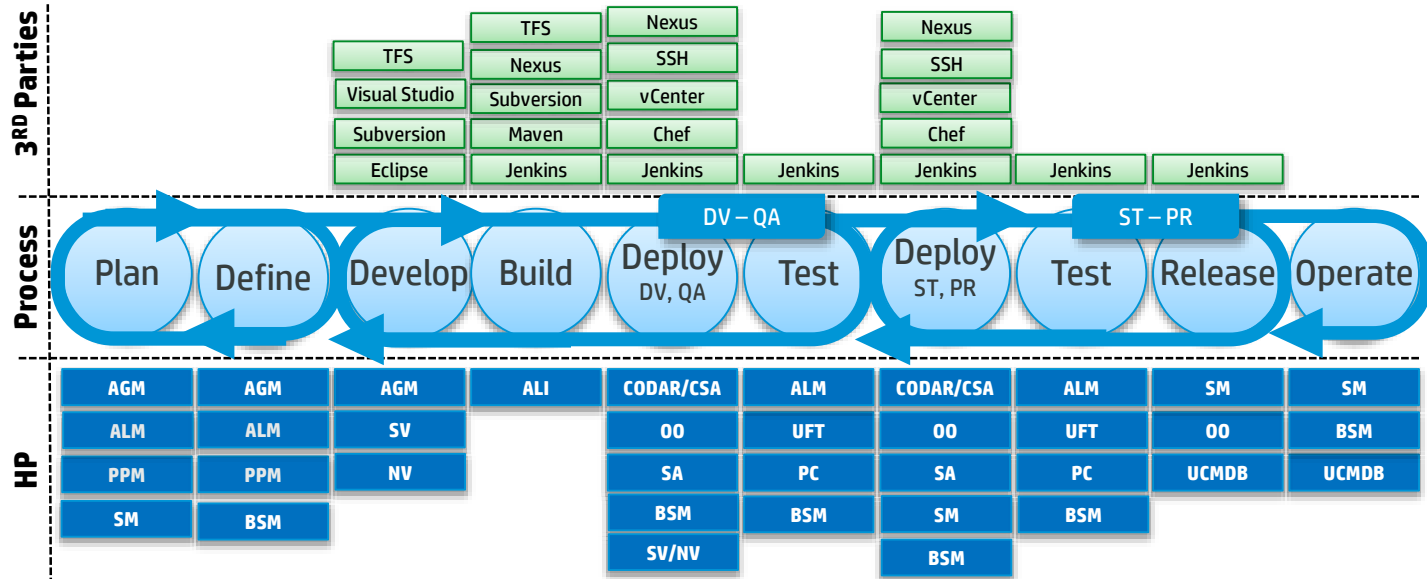
# Continuous Delivery



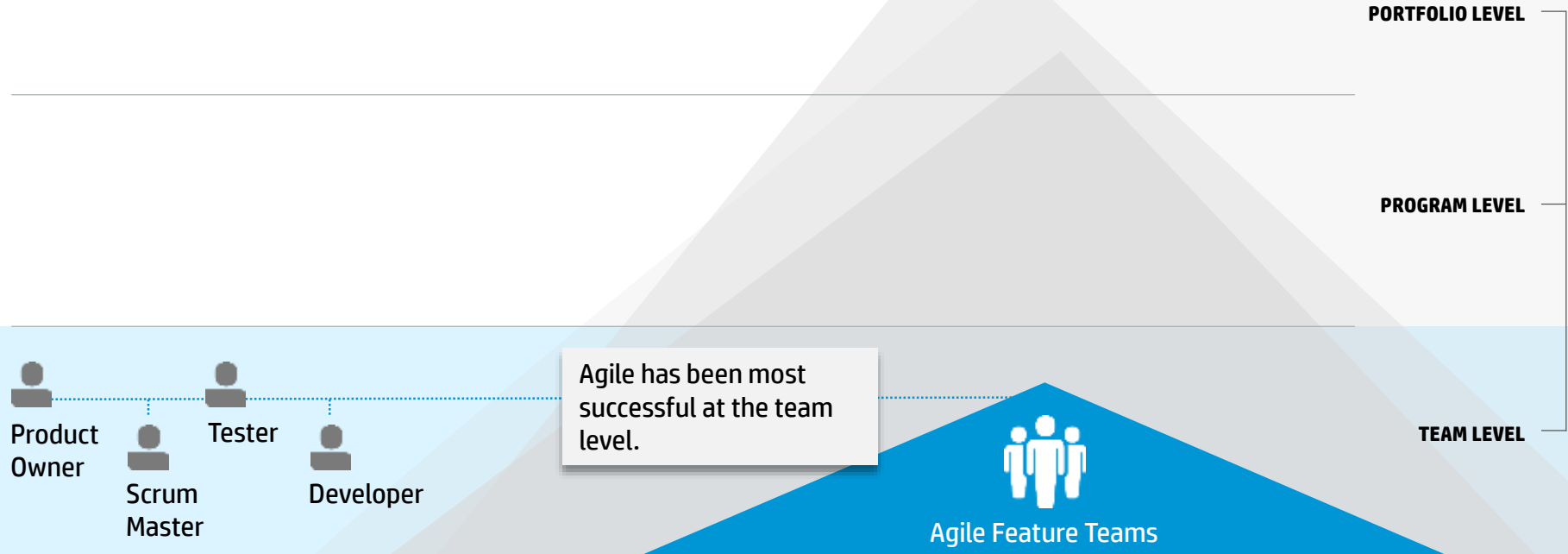
# Continuous Assessment



# Tool support



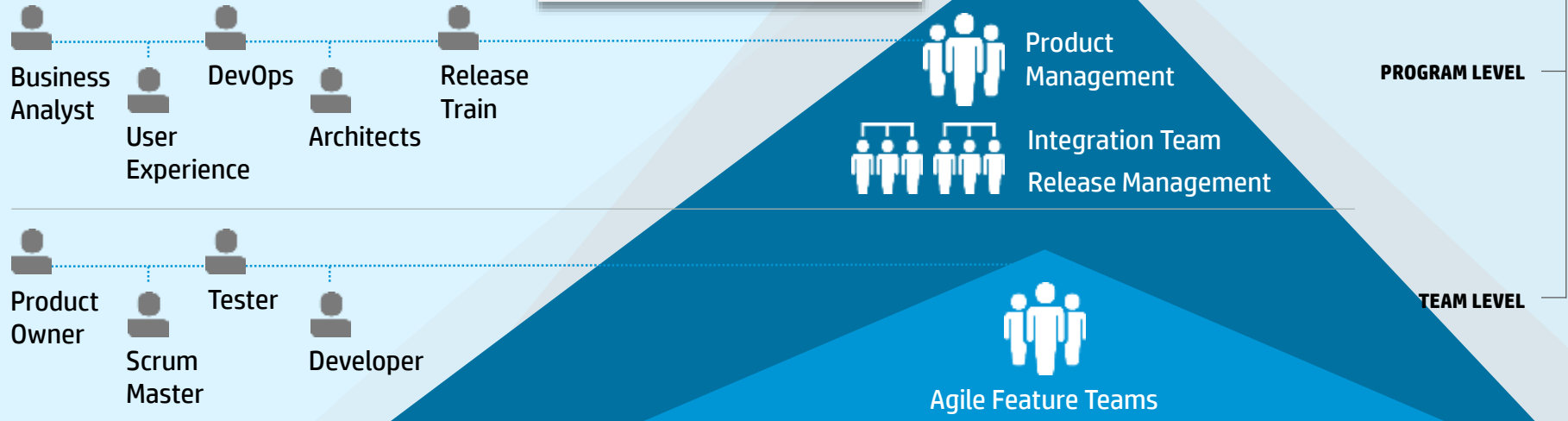
# Agile is a journey, beyond the team



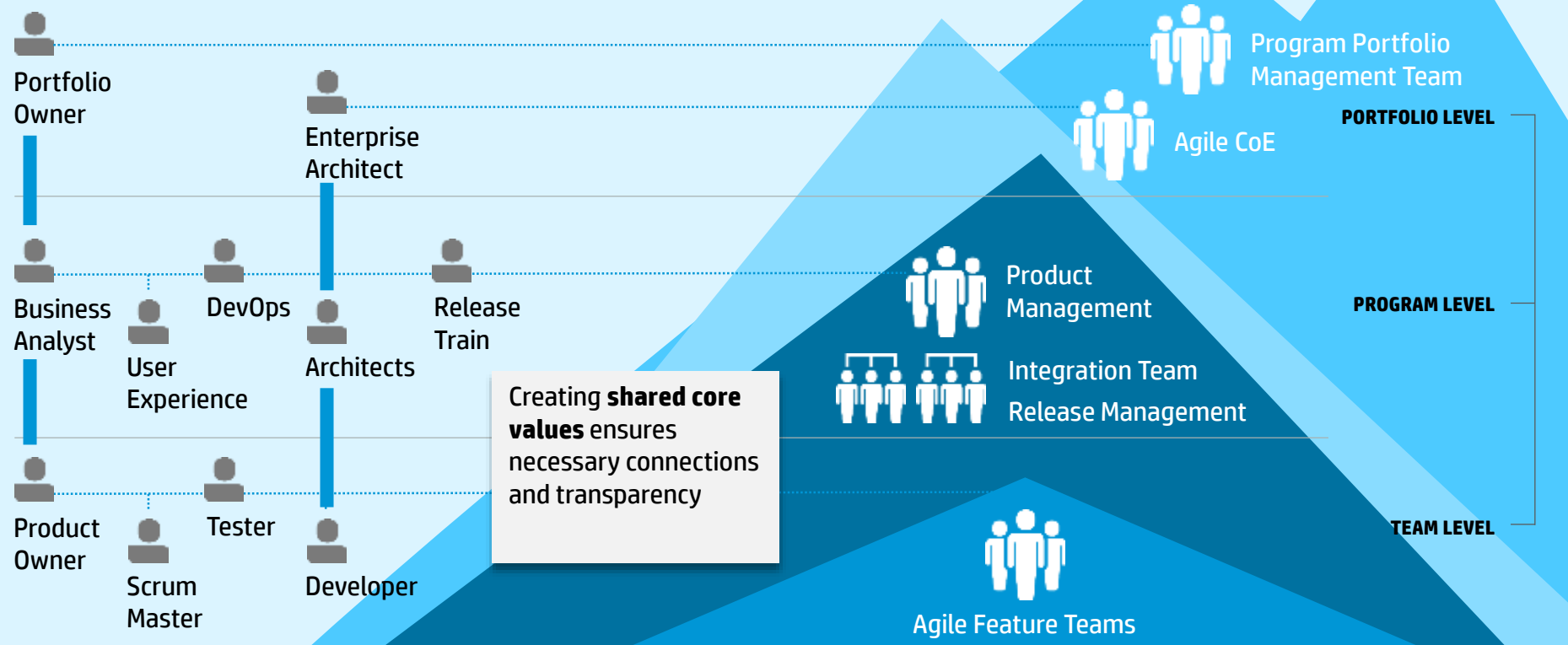


# Agile is a journey, beyond the team

As Agile scales upward, synchronizing *priorities*, collaboration and delivery are essential

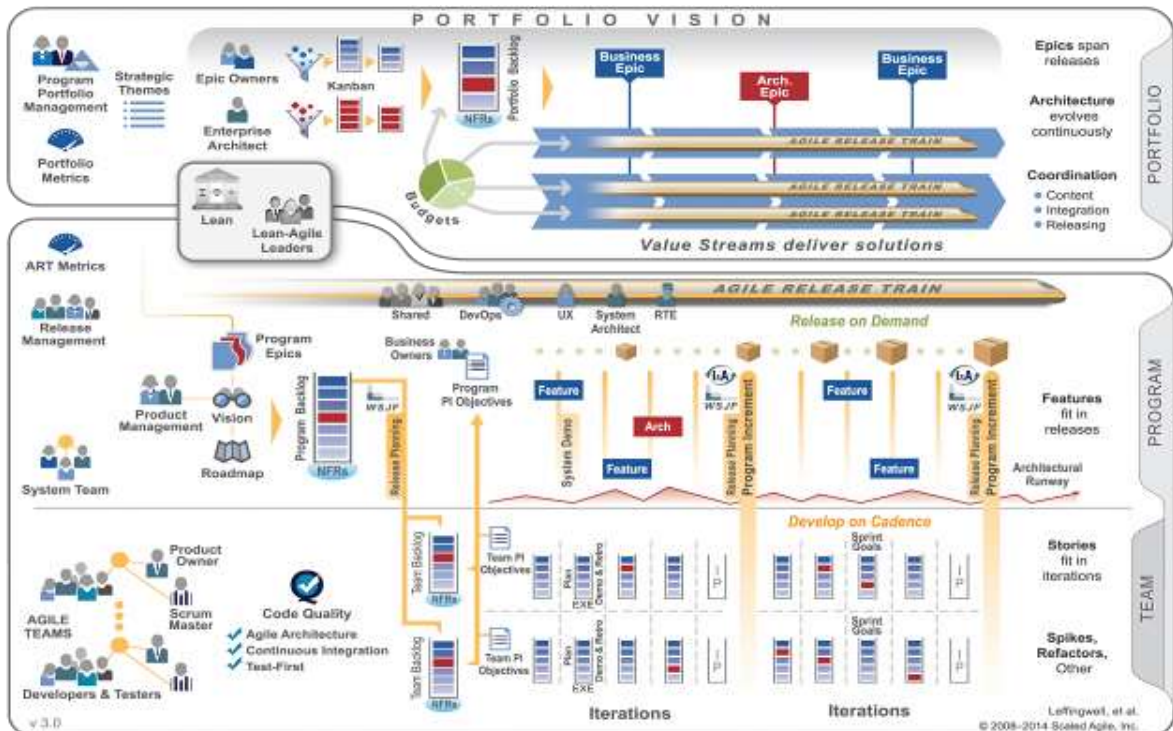


# Agile is a journey, beyond the team





# Scaled Agile<sup>®</sup> Framework



# “Scaled Agile”



**Process change → Change of Philosophy**

***Scale philosophy, methods & delivery through the enterprise***

***Enterprise-wide Cultural Transformation***

# Scaled Agile vs DevOps

**DevOps = Apps (agile @team level) + Ops together**

**EA (SAFe) = DevOps + Business together**

***Team Agile → DevOps → Enterprise Agile***



# If you have the culture.. We have the tools

## Enterprise Agile

**Goal: Release fast with confidence**

- ✓ **Build incrementally w/ continuous quality**
- ✓ **Constant customer feedback & engagement**
- ✓ **Align w/ business to respond quickly**
- ✓ **Demo & measure value & progress in releases**



### Real results

- ✓ **Time to market**
- ✓ **Higher quality**
- ✓ **Greater customer satisfaction**

# Thank you!

