



# DevOps

Applications Development and Operation in the future

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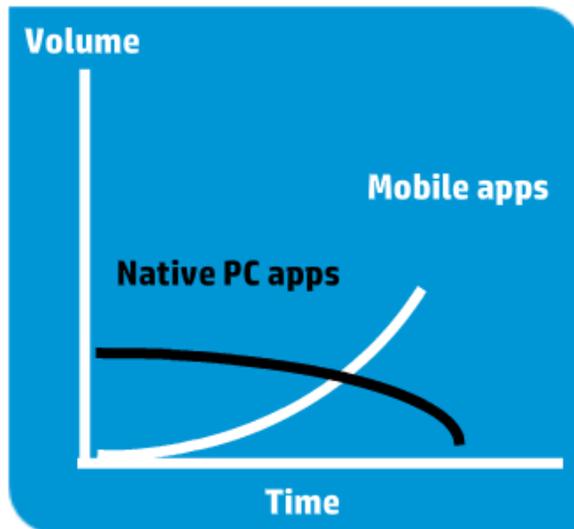
2015.10.30.

# The enterprise is under pressure to become more nimble

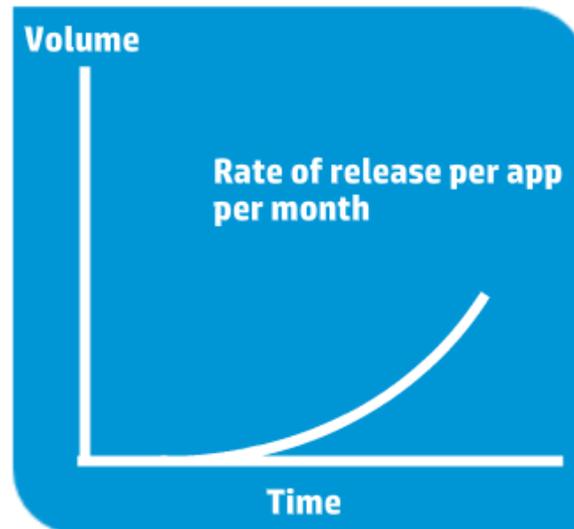
Trends of a User Centric World with Mobile and Cloud



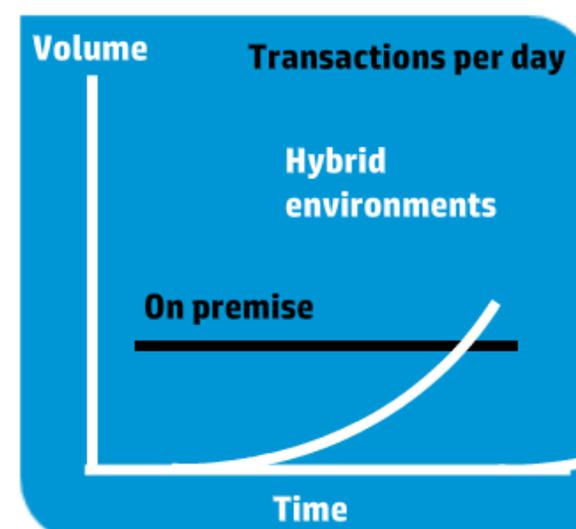
**Mobility**



**Velocity**



**Cloud**



**Business needs: velocity and quality**

# BUT: Enterprise is struggling to keep up..



**The Customer**

**We need to innovate**  
IT never deliver faster on time  
Our customers are unhappy

We are struggling to increase pace of delivery (50% projects late)

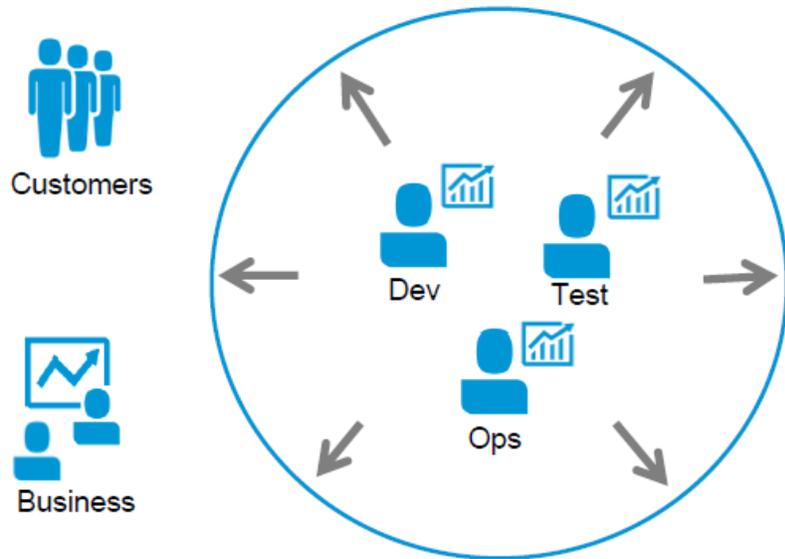
We are releasing too many defects (20% defects leaked)

We cannot risk frequent changes to production (50% releases rollbacked)



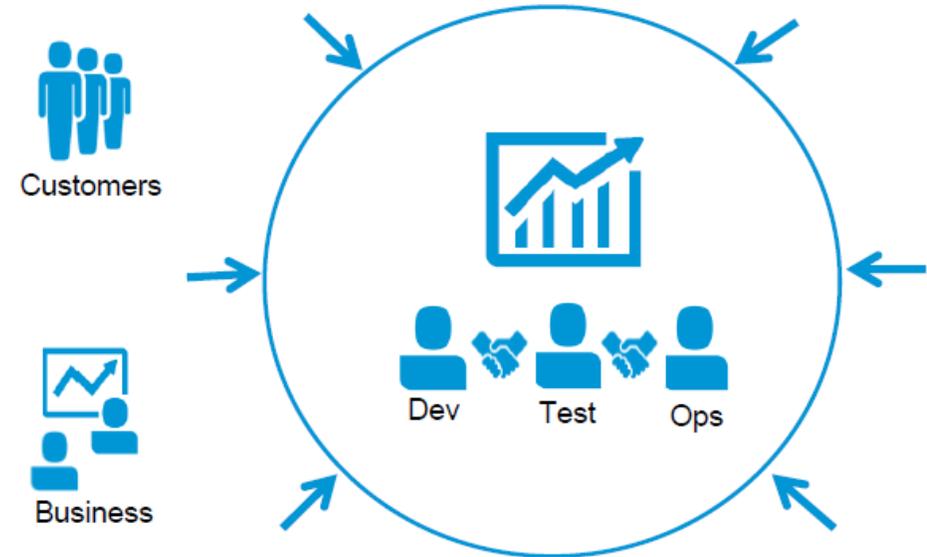
# Market trends are forcing a shift in focus

From internal IT perspective to a customer driven perspective



## Internal IT driven

- ✓ Reduce cost, defects and incidents
- ✓ Focus on SLA's – how many outages, performance and availability

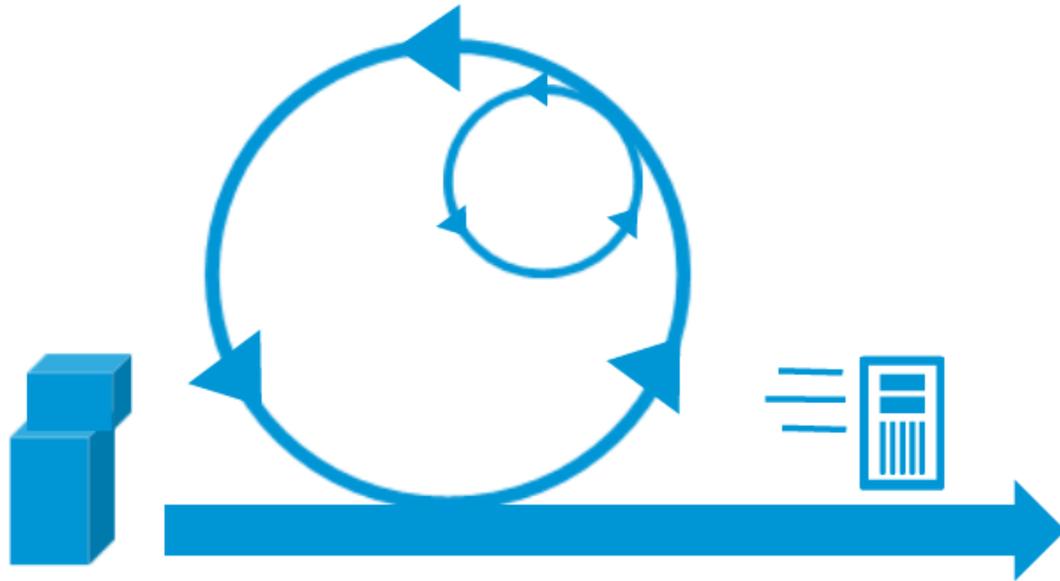


## Customer driven

- ✓ Provide positive customer experience
- ✓ Faster and frequent time to market
- ✓ Gain a competitive advantage

# The classic release bottleneck

## Apps Development



**“Be more agile -  
deliver faster”**

**Features &  
code changes**

## IT Operations



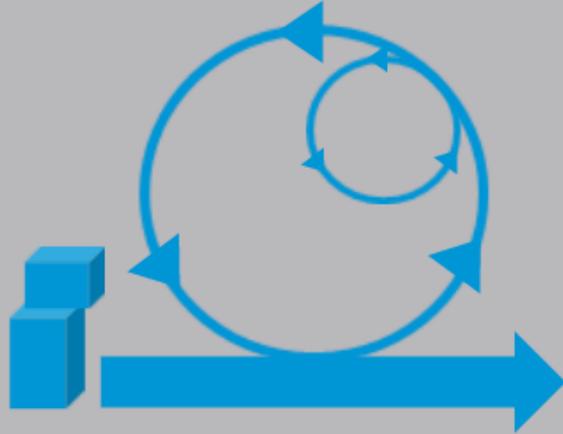
**“Change is evil”**

# DevOps Solution Vision

## Apps Development

## IT Operations

Keys to bridge the gap:



**“Build to run”**

Quality

Automation

Collaboration

Governance

Integration



**“Regular releases reduce risk”**

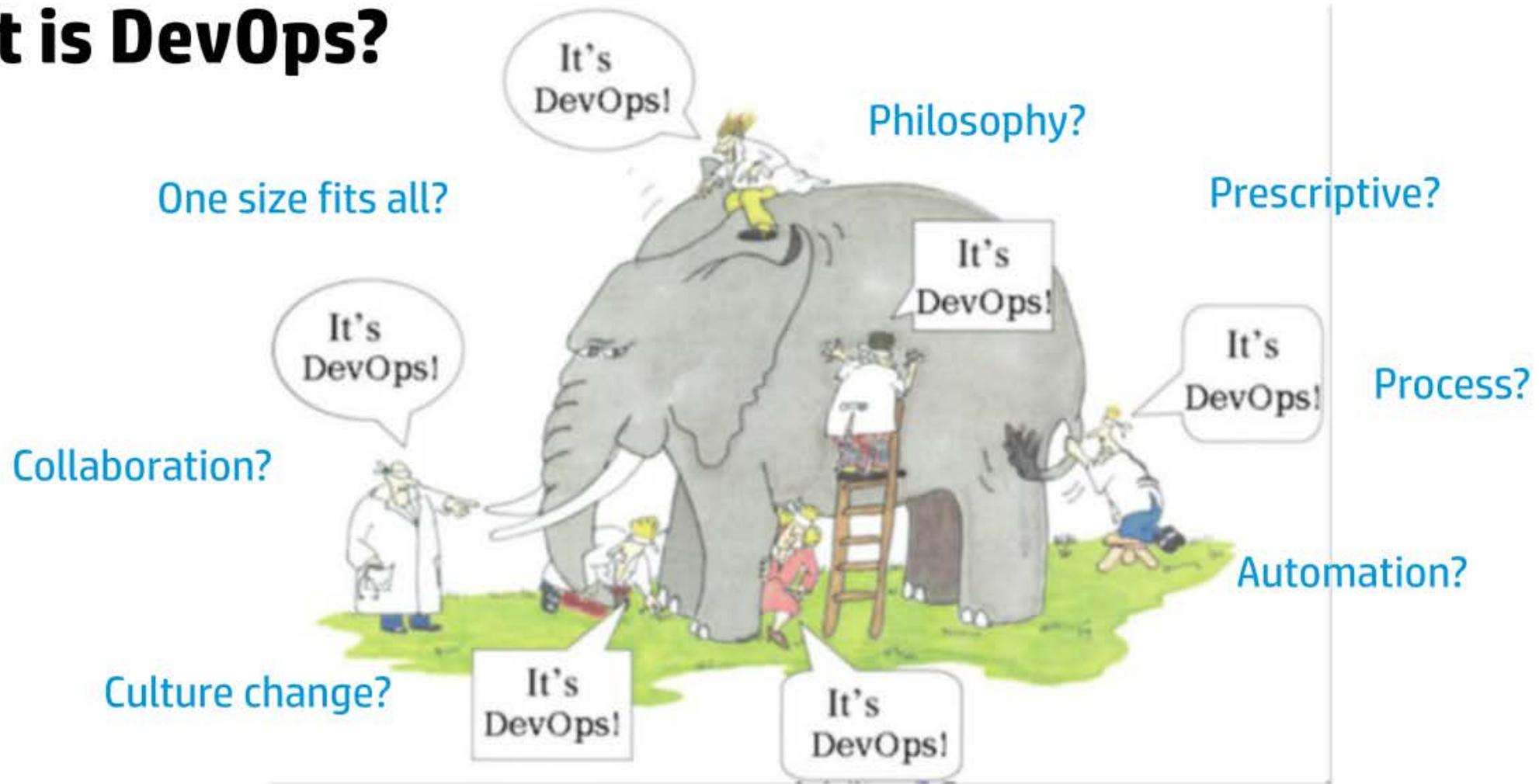
“Gartner says by 2016, DevOps will evolve from a niche to a mainstream strategy employed by 25 percent of global 2000 organizations” Enterprise Services Market/Watch

The screenshot shows the jobinfo.hu website with a search bar containing 'devops' and a 'KERES' button. Below the search bar, a navigation breadcrumb reads 'Főoldal > devops > Új keresés indítása'. A prominent red banner displays the text 'Devops állások, munkák (32 db állás) - jobinfo.hu', where '(32 db állás)' is circled in red. To the left of the banner is a dark box with the text 'Kérd napi állásajánló'.

The screenshot shows the HP Careers website with a search bar containing 'devops' and a search icon. Below the search bar, a navigation breadcrumb reads 'Overview > Search & apply > Working at HP > Help'. A blue banner displays the text 'Search results for devops' and '51 results found', where '51 results found' is circled in red. Below the banner is a table with the following data:

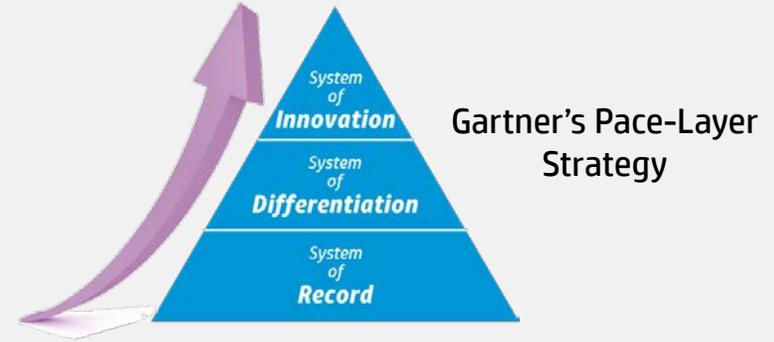
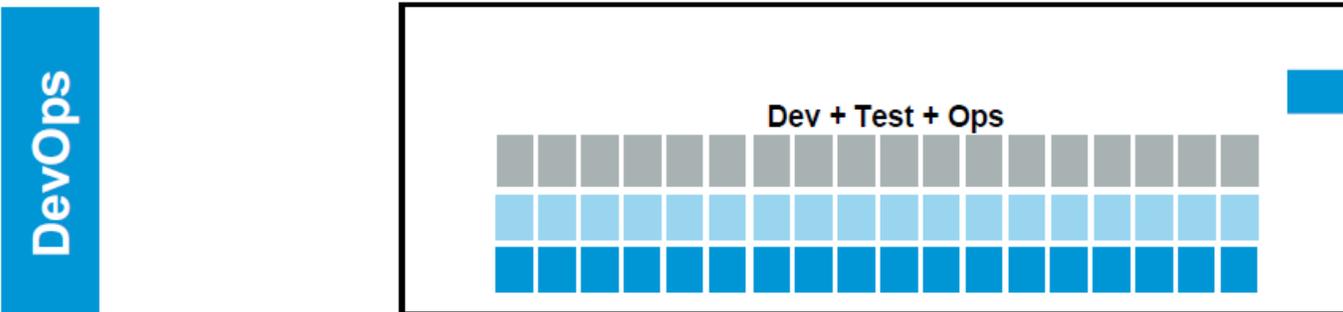
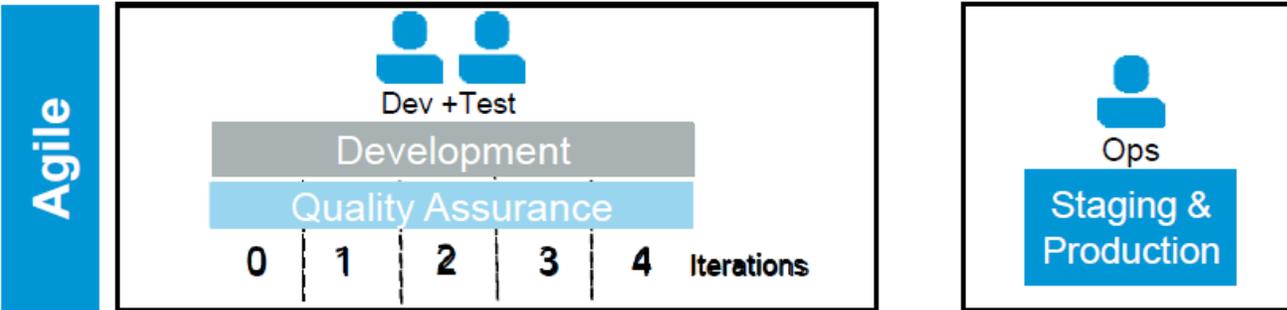
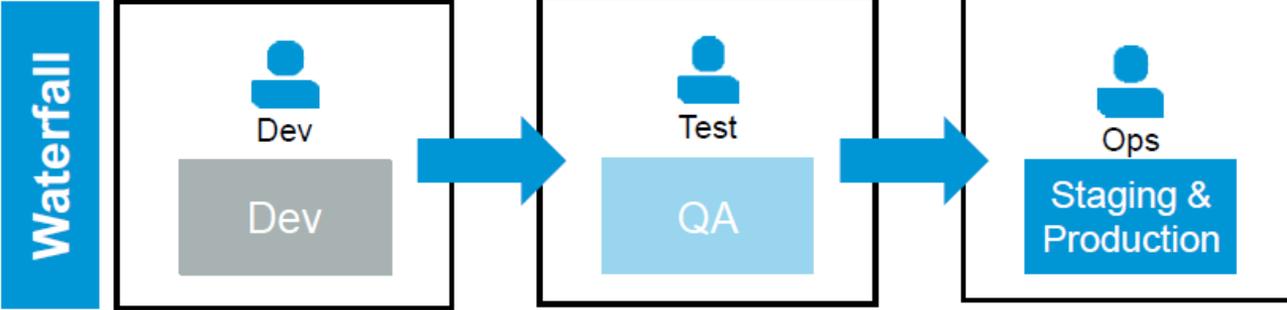
Job Title	Location	Date
filter by job title	filter by job location	Filter Reset
DevOps Consultant	Bangalore, Karnataka, India	10/19/2015
DevOps Engineer	Bangalore, Karnataka, India	10/19/2015
DevOps Technical Consultant	Chicago, Illinois	10/19/2015
DevOps Team Engineer	Yehud, Israel	10/19/2015

# What is DevOps?



Philosophy, Culture Shift and set of principles and methods (based on Agile & Lean) for better Dev & Ops collaboration to build software that meets business needs faster, cheaper & more reliably

# Shift in priorities is demanding DevOps



## Enable «System of Innovation»

- «new ideas» rapidly made available
  - Pace of Change: **very frequent**
- ⇒ Frontends; Product Catalog and Order Capture

## Make «Differentiation» available

- Functions that provide competitive differentiation
  - Pace of Change: **frequent, must be configurable**
- ⇒ CRM and Fulfilment

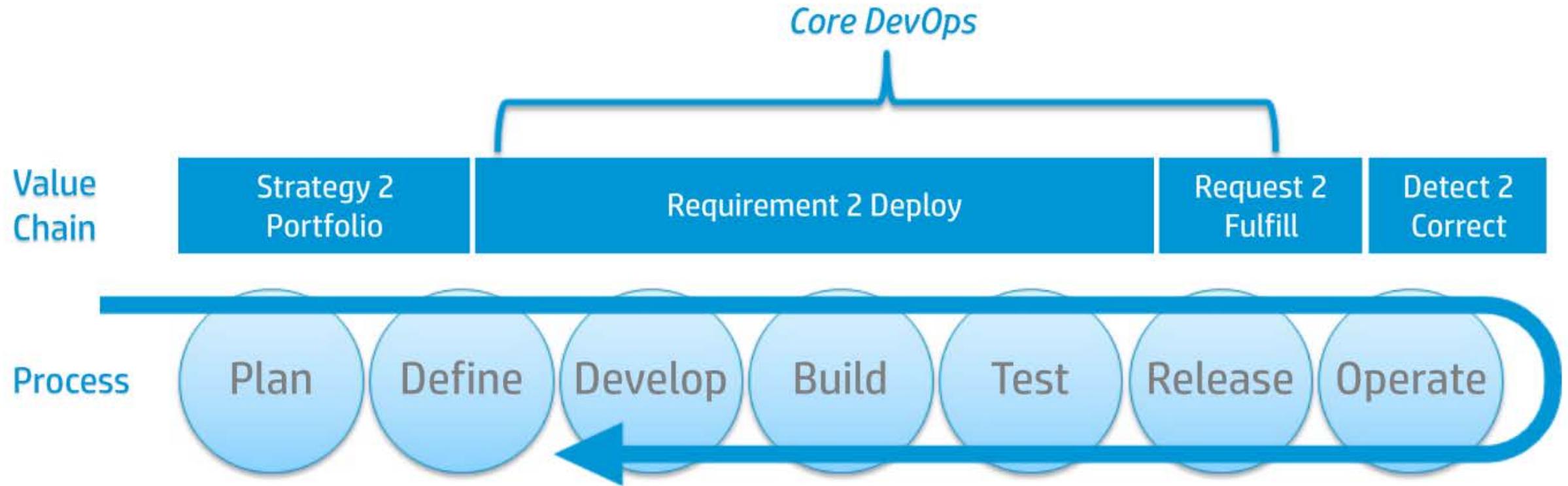
## Improve execution of «System of Record»

- Bring back-end to the front-end
  - Pace of Change: **incremental**
- ⇒ Charging, Billing, Invoice/AR

## One product team !

- Shared customer-oriented goals
- Shared objectives
- Shared responsibility

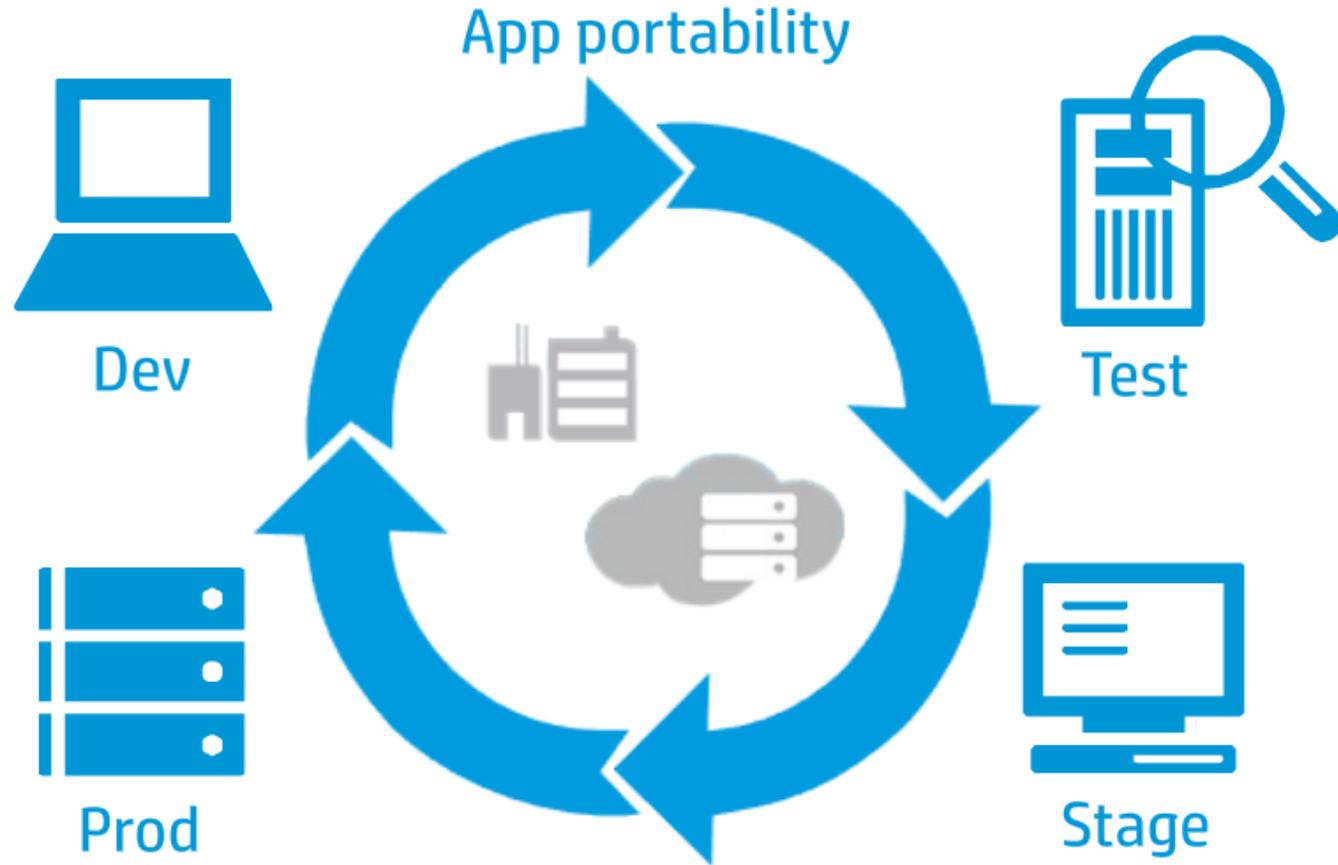
# DevOps Mapped to IT Value Streams



# Portability across lifecycle environments

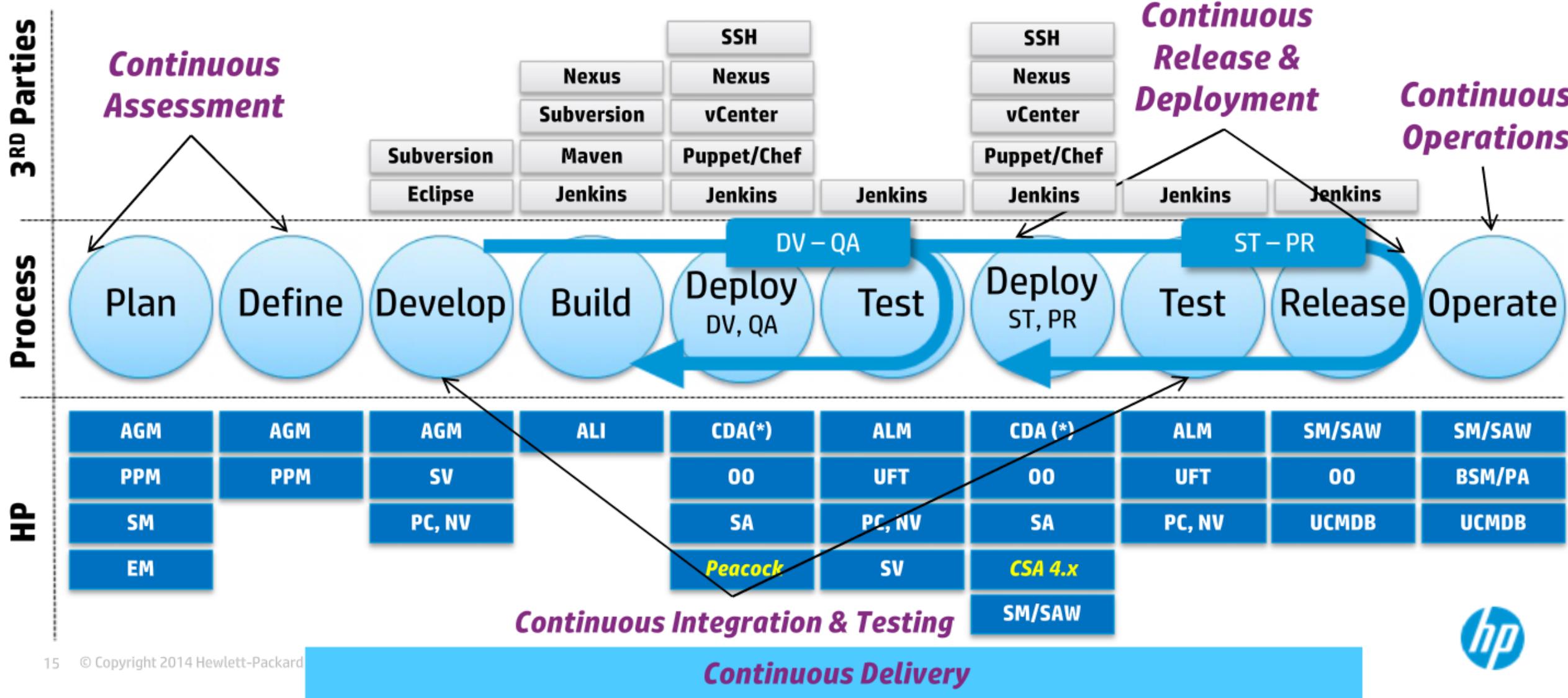
## With Portability:

- Build apps with prod in mind
- Model all environments the same way
- Functionally equivalent, different in scale
- Automatically provision infrastructure as needed
- Deploy in an automated error-proof manner
- Automate change/config management
- Automate hand-offs
- Seamless movement of app from one environment to next
- On-premise, across cloud vendors, or a hybrid

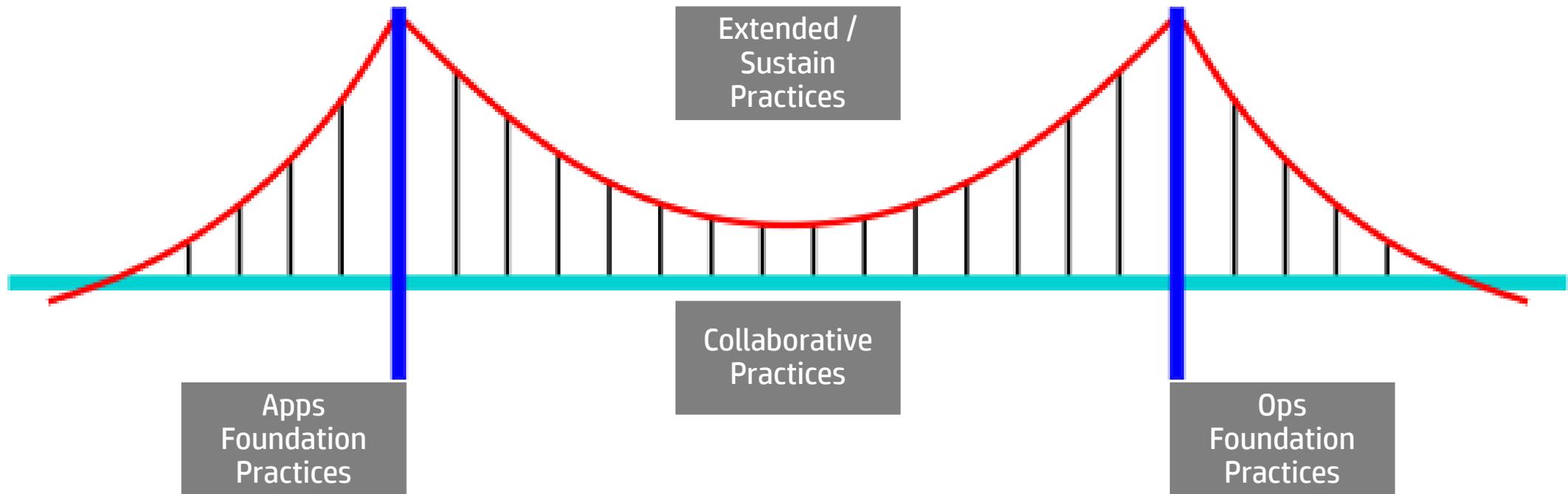


# HP DevOps solution: Continuous Everything

## HP's Implementation Blueprint



# Bridge analogy to DevOps solutions



# Q & A