



# DevOps Automation for SAP: How a leading communication technology provider is driving innovation

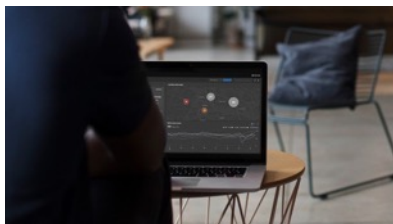
Jim Dugger – Senior Technology Evangelist  
Basis Technologies

# About The Customer



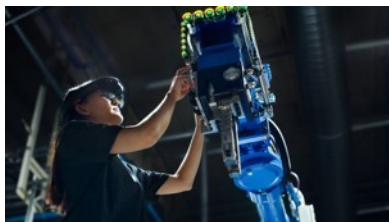
## Global Telecomms leader:

- 120,000 employees
- > 45,000 patents



## Business focus:

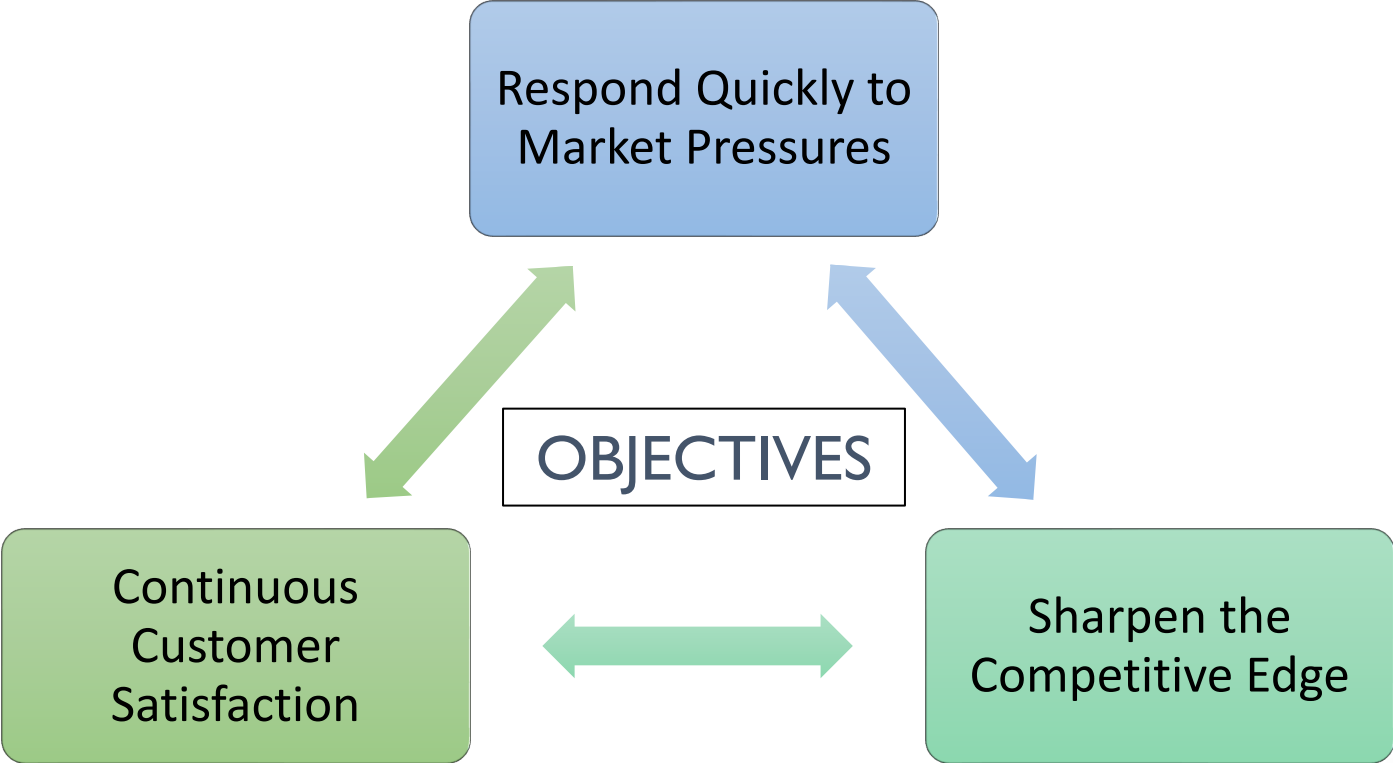
- Networks
- Digital Services
- Managed Services



## Emerging Business:

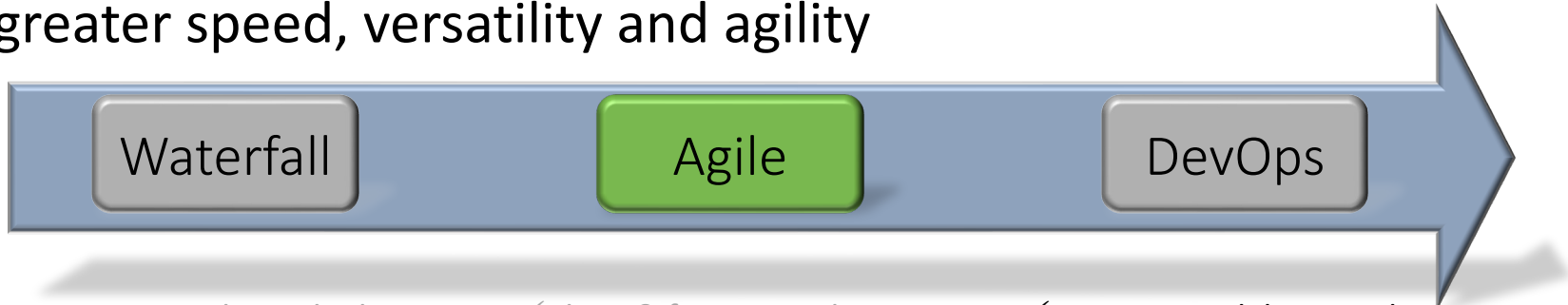
- 5G
- IoT
- R&D

# Why Change IT Methodology?



# Evolution towards agile/DevOps

DevOps is built on agile principles and provides a platform for greater speed, versatility and agility



- Long pre-planned release cycles
- Can be difficult to change direction
- Business may wait a long time for delivery

- ✓ Short & frequent releases
- ✓ More responsive
- ✓ Business gets new features faster
- ✓ Testing, risk, impact and recovery time are low

- ✓ Continuous delivery to business
- ✓ Highly responsive
- ✓ Automation reduce risks and improves quality
- ✓ Greater business alignment & satisfaction
- ✓ Improved productivity & efficiency

# DevOps Project Objectives

Increase velocity of E2E delivery lifecycle

- Deliver measurable Business Value quickly
- Eliminate redundant manual effort
- Automate everything!

Increase productivity

- More Code
- Faster Feedback
- First time right!
- Component re-use
- Eliminate Environment Configuration Issues

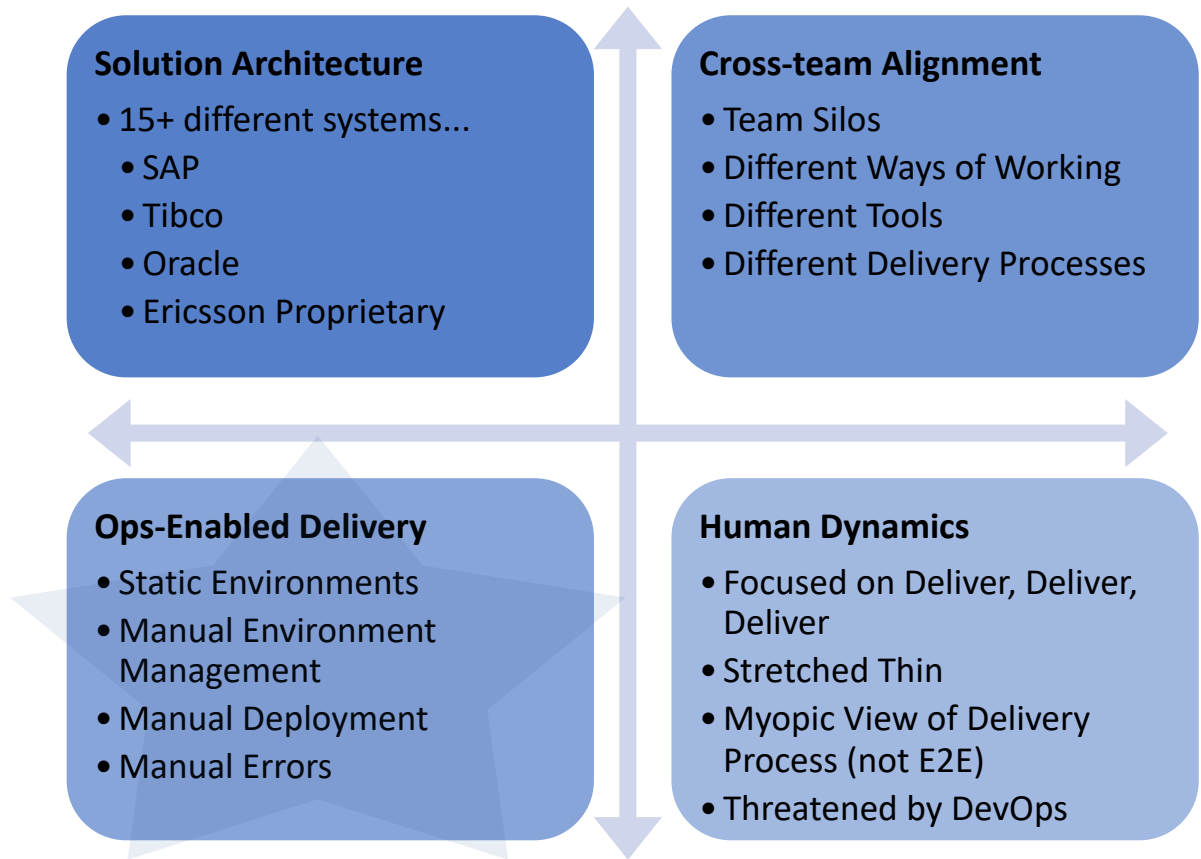
Reduce cost

- Cost of poor quality
- Cost of human error
- Cost of manual processes
- Cost of missing SLAs

Improve quality

- Software delivery
- Release management

# Challenges in DevOps Transformation



# DevOps Technical Strategy

## Approach

### Phase I

- Build a CI/CD Pipeline to Automate Build and Deployment
- Implement a microservices strategy

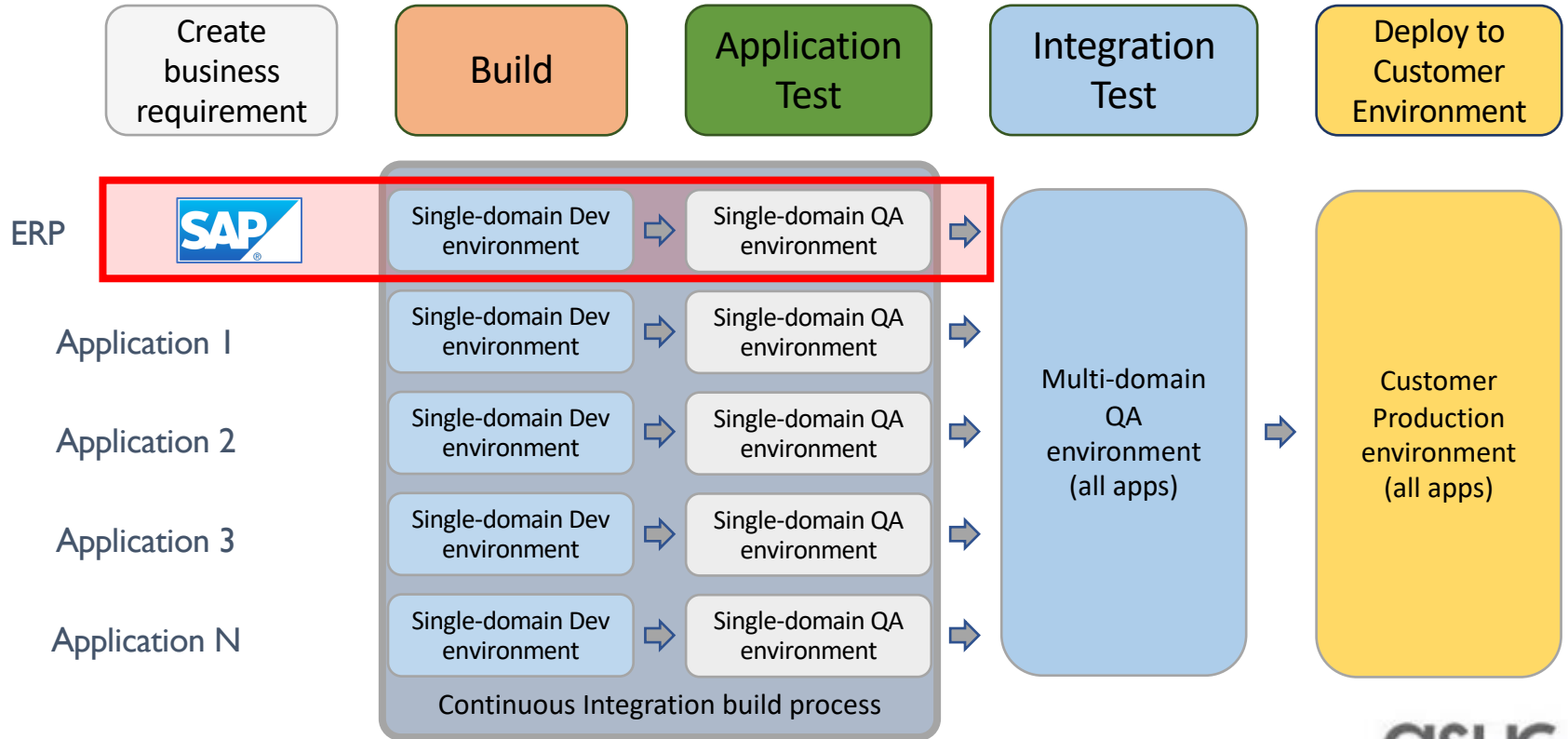
### Phase II

- Containerize Apps
- Use App Containers to Build Environments
- Deploy to Containers as though they were servers

### Phase III

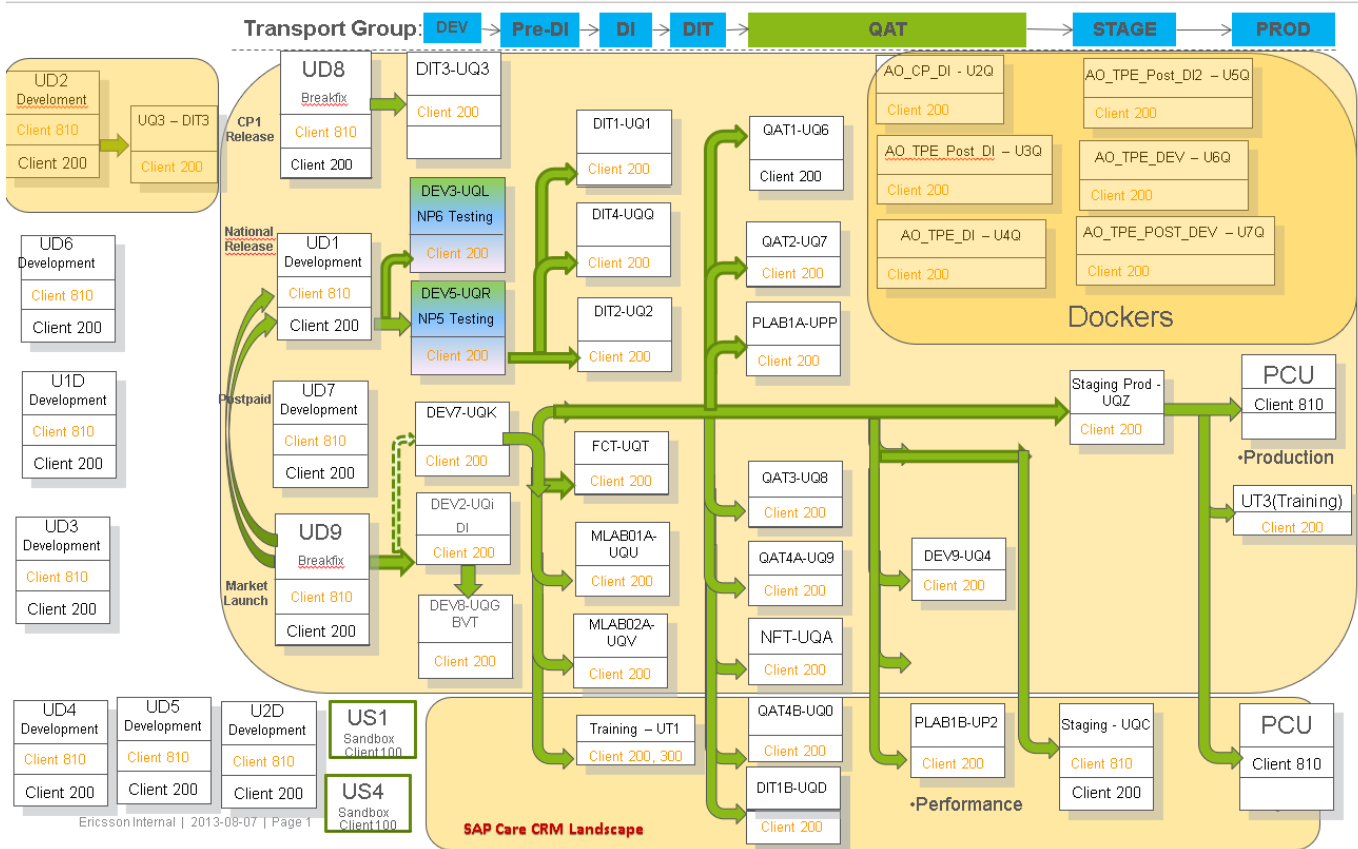
- Build Containers within the CI/CD Pipeline
- Deploy Containers to Environments through and Orchestrated Delivery Platform

# Multi-App Domain Delivery (SAP disconnected)

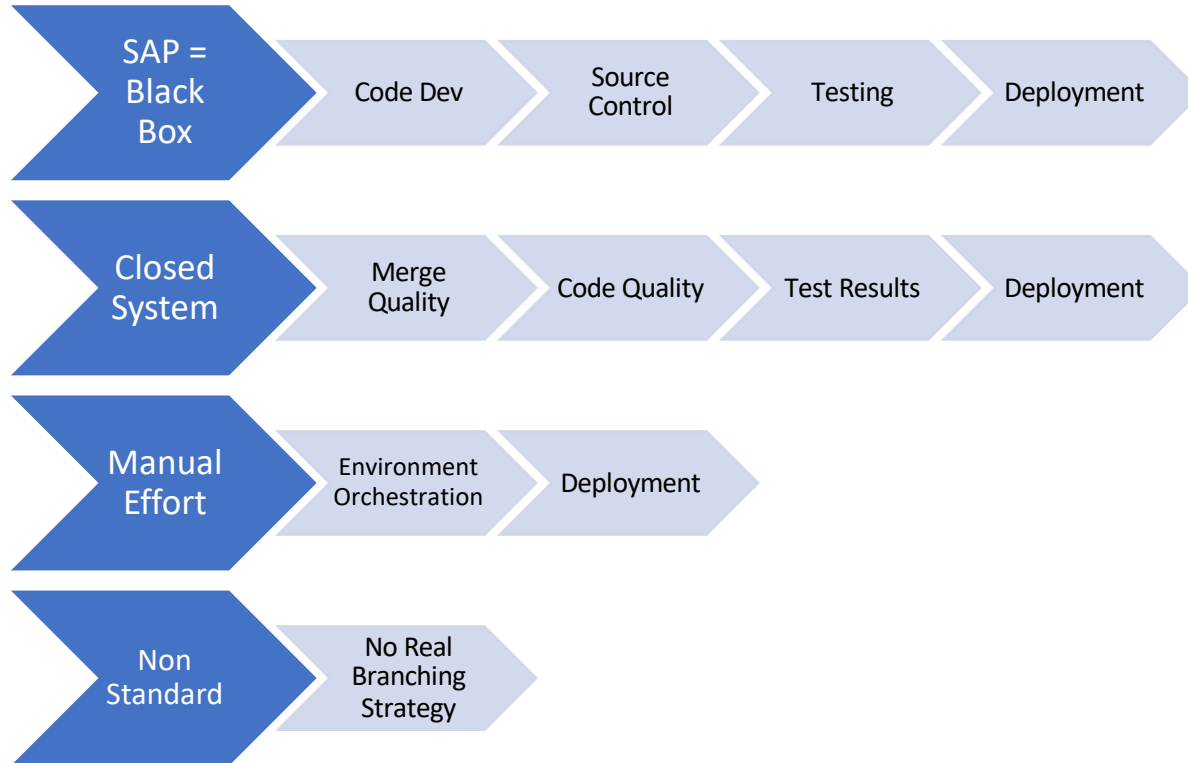




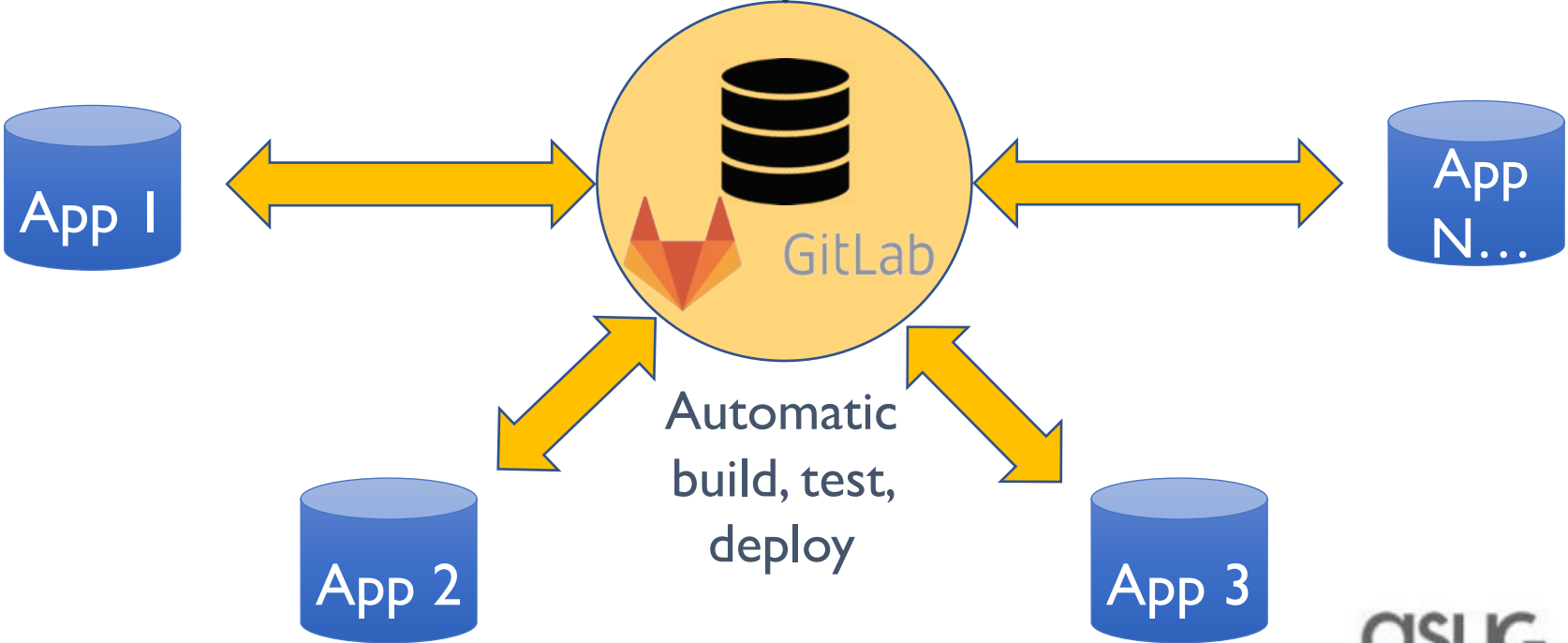
# Complex, Multi-track SAP Landscape



# DevOps Technical Strategy: SAP Challenges



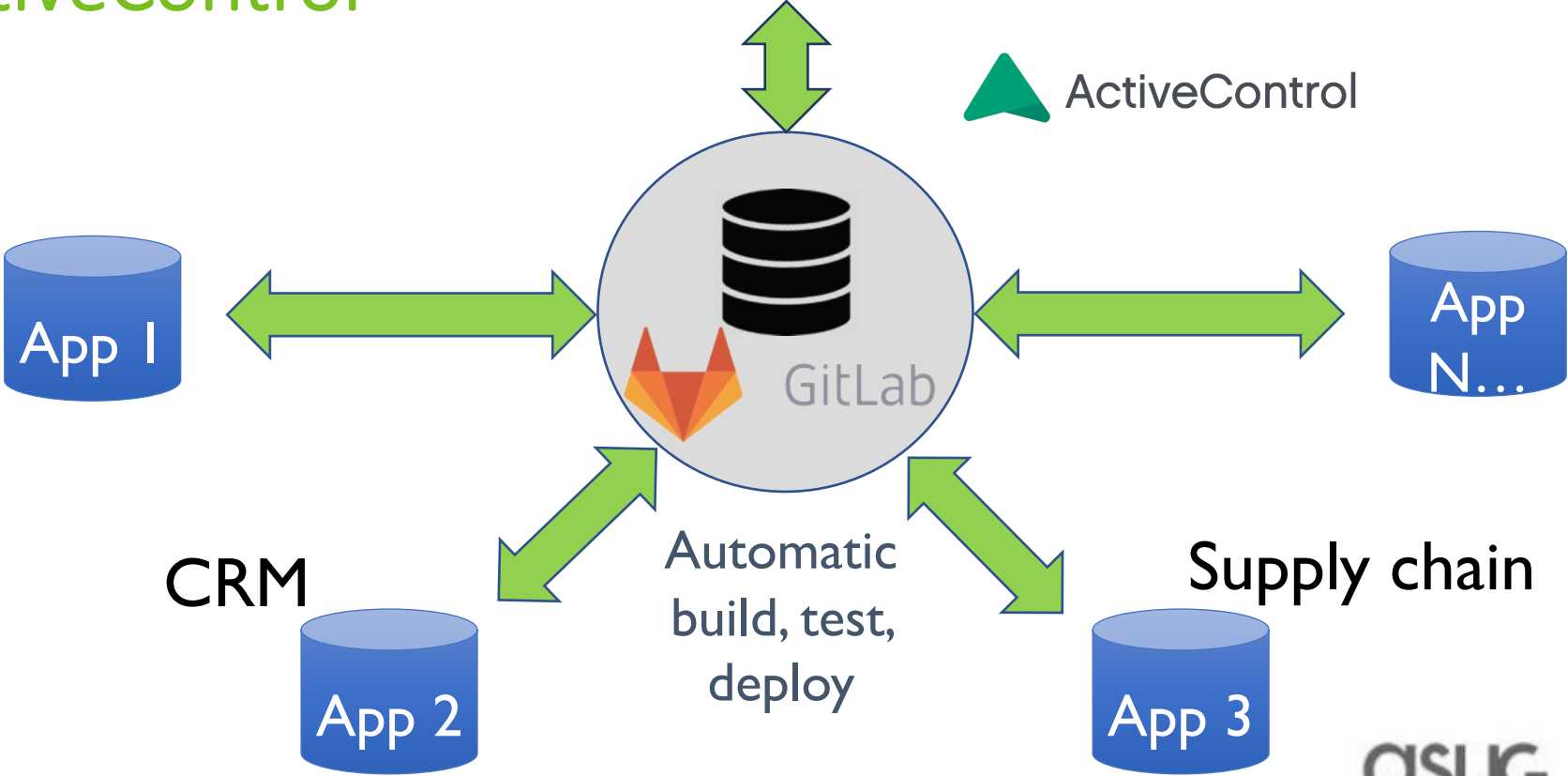
# Solving the Problem



# Solving the Problem: ActiveControl



ActiveControl





GitLab



GitLab

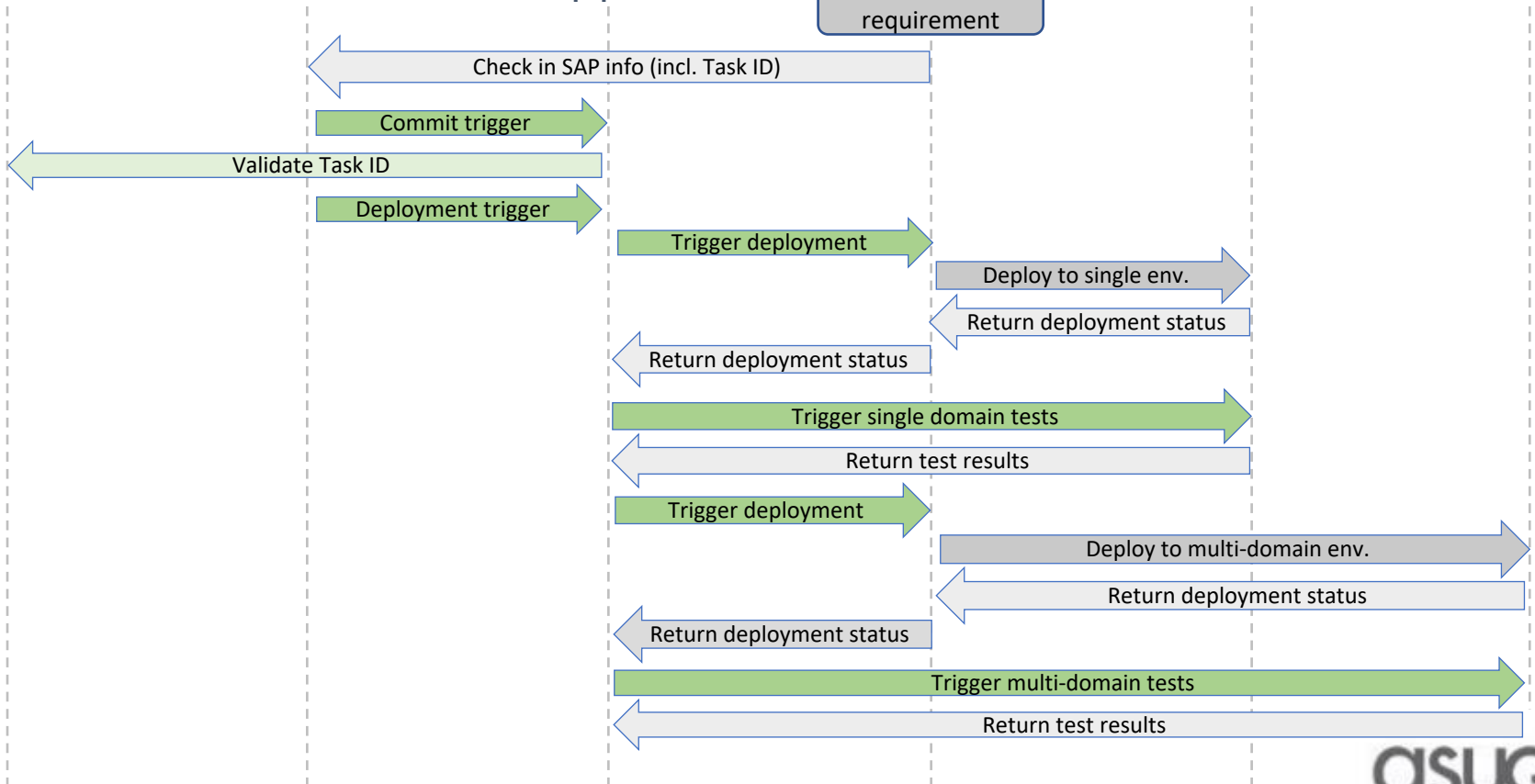
CI pipeline



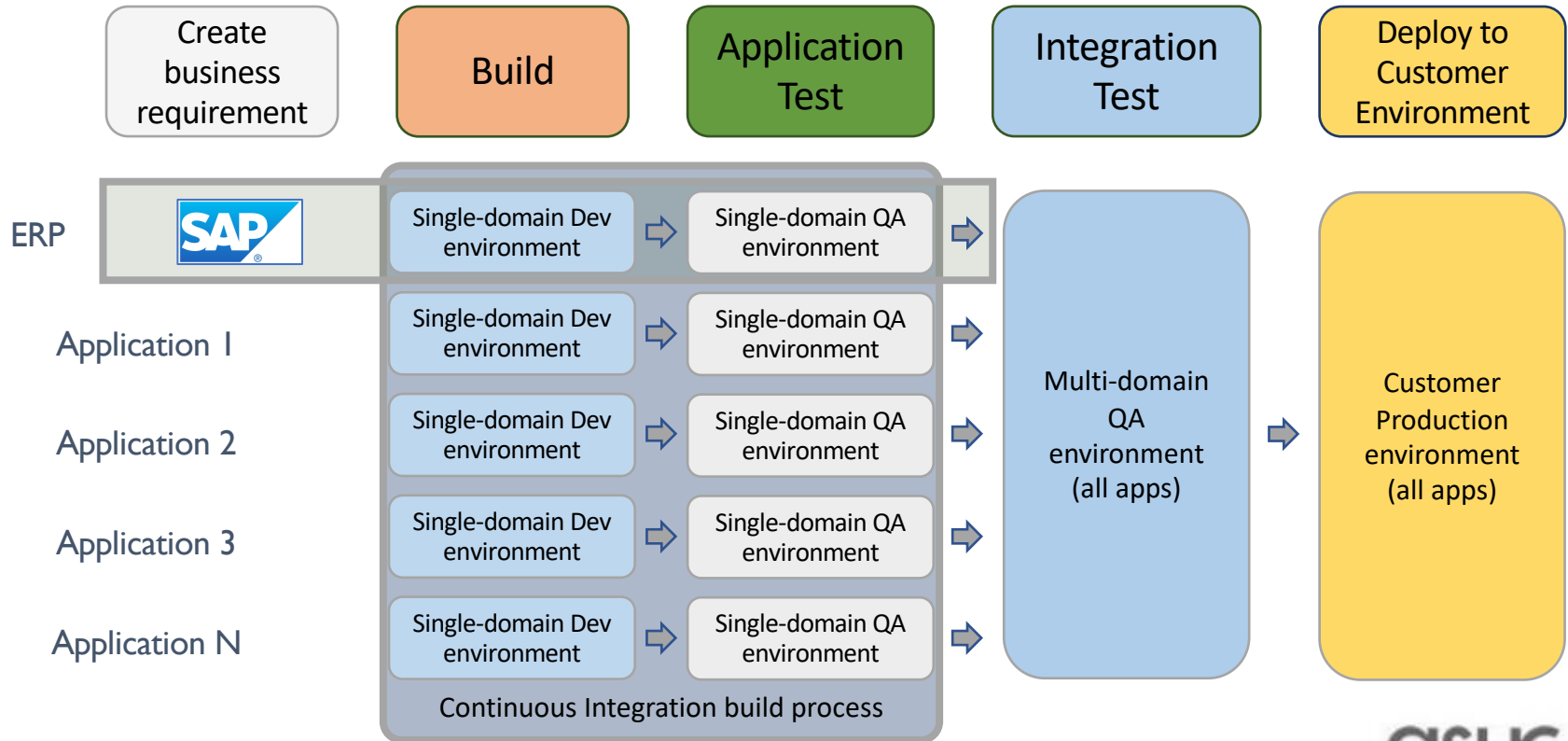
ActiveControl

Single-domain environment (e.g. SAP)

Multi-domain environment (all apps)



# Achieving Multi-App Domain Delivery (with SAP)



# Continuous Delivery in Action



ActiveControl

Major telecom  
provider



Co-ordinated,  
automated  
deployments across  
**15 IT applications**,  
including an **N+10**  
**SAP landscape**



Continuous, on-  
demand delivery of  
up to **2,500 SAP**  
**transports** in a 2-  
week period

Seamless  
management of  
change across a  
**dynamic SAP**  
**landscape**

# Benefits of ActiveControl

- Automatic, co-ordinated build, test and deployment of change (SAP and non-SAP)
  - SAP deployment in sync with other app domains
  - SAP deployment triggered automatically
- SAP development is integrated into wider application delivery process
  - SAP team delivers quality KPIs to project branch
  - Enables tracking and coherence in delivery process
- **Faster business response and product rollout** via frequent deployment of integrated, cross-application change



# About Basis Technologies

- We build software automation that enables our customers to optimize the way they run SAP.
- We focus on bringing DevOps & Continuous Delivery to SAP environments
- Global offices serving customer base of multi-national brands



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# Questions?

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