



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

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About The Customer



Global Telecomms leader:

- 120,000 employees
- > 45,000 patents



Business focus:

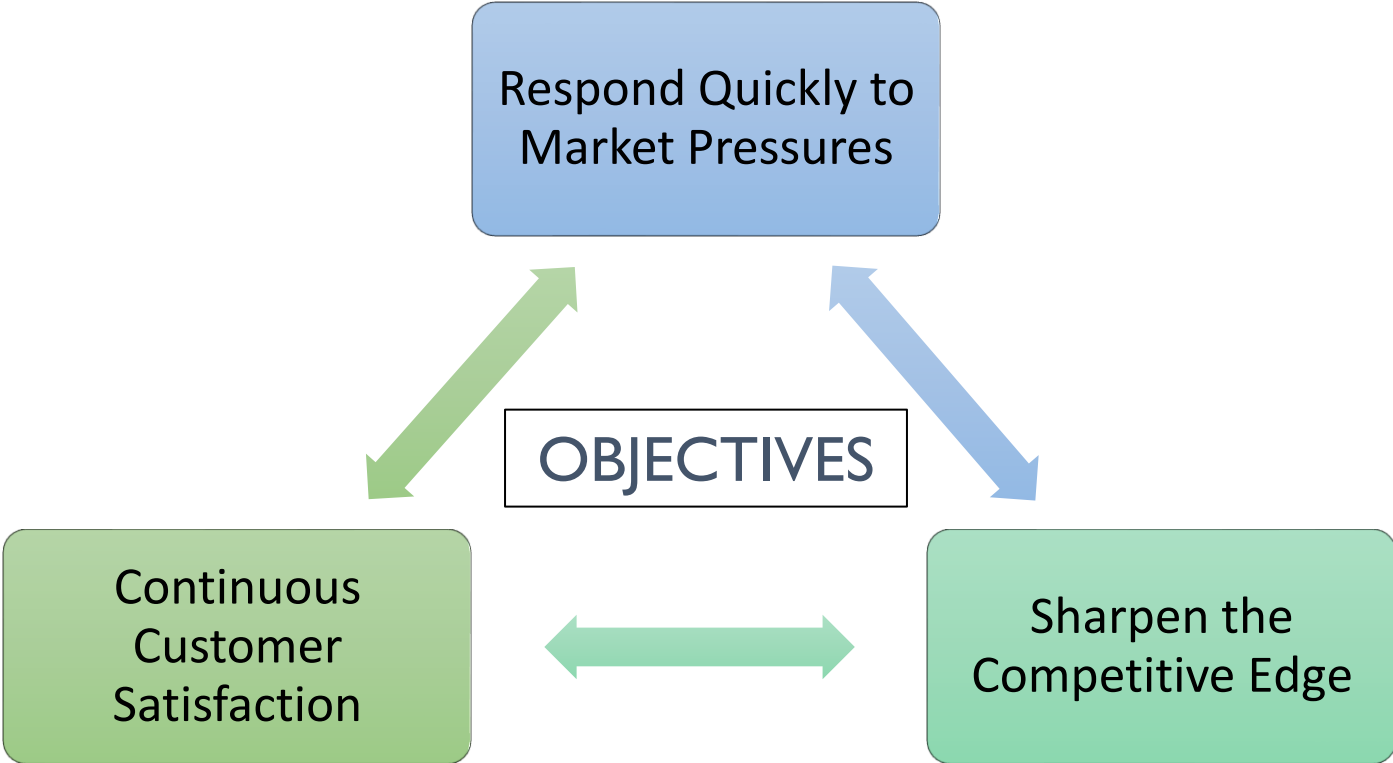
- Networks
- Digital Services
- Managed Services



Emerging Business:

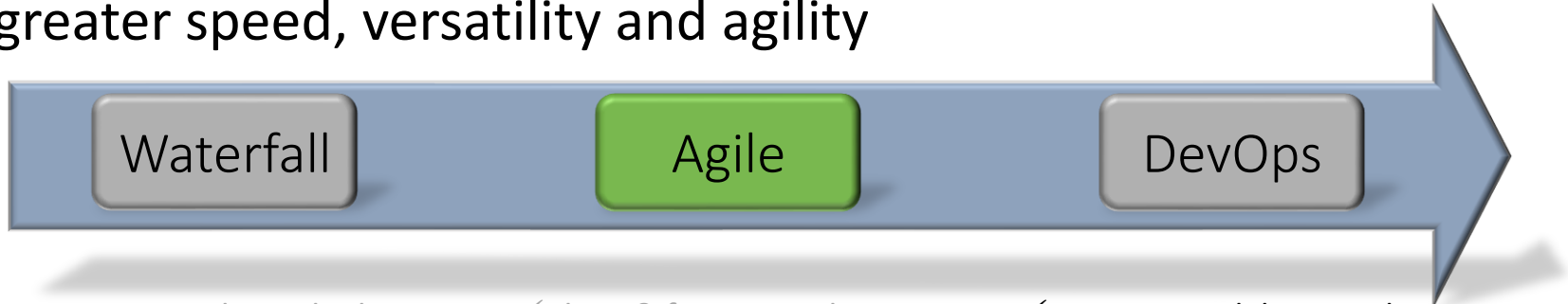
- 5G
- IoT
- R&D

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

Solution Architecture

- 15+ different systems...
 - SAP
 - Tibco
 - Oracle
 - Ericsson Proprietary

Cross-team Alignment

- Team Silos
- Different Ways of Working
- Different Tools
- Different Delivery Processes

Ops-Enabled Delivery

- Static Environments
- Manual Environment Management
- Manual Deployment
- Manual Errors

Human Dynamics

- Focused on Deliver, Deliver, Deliver
- Stretched Thin
- Myopic View of Delivery Process (not E2E)
- Threatened by DevOps

DevOps Technical Strategy

Approach

Phase I

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

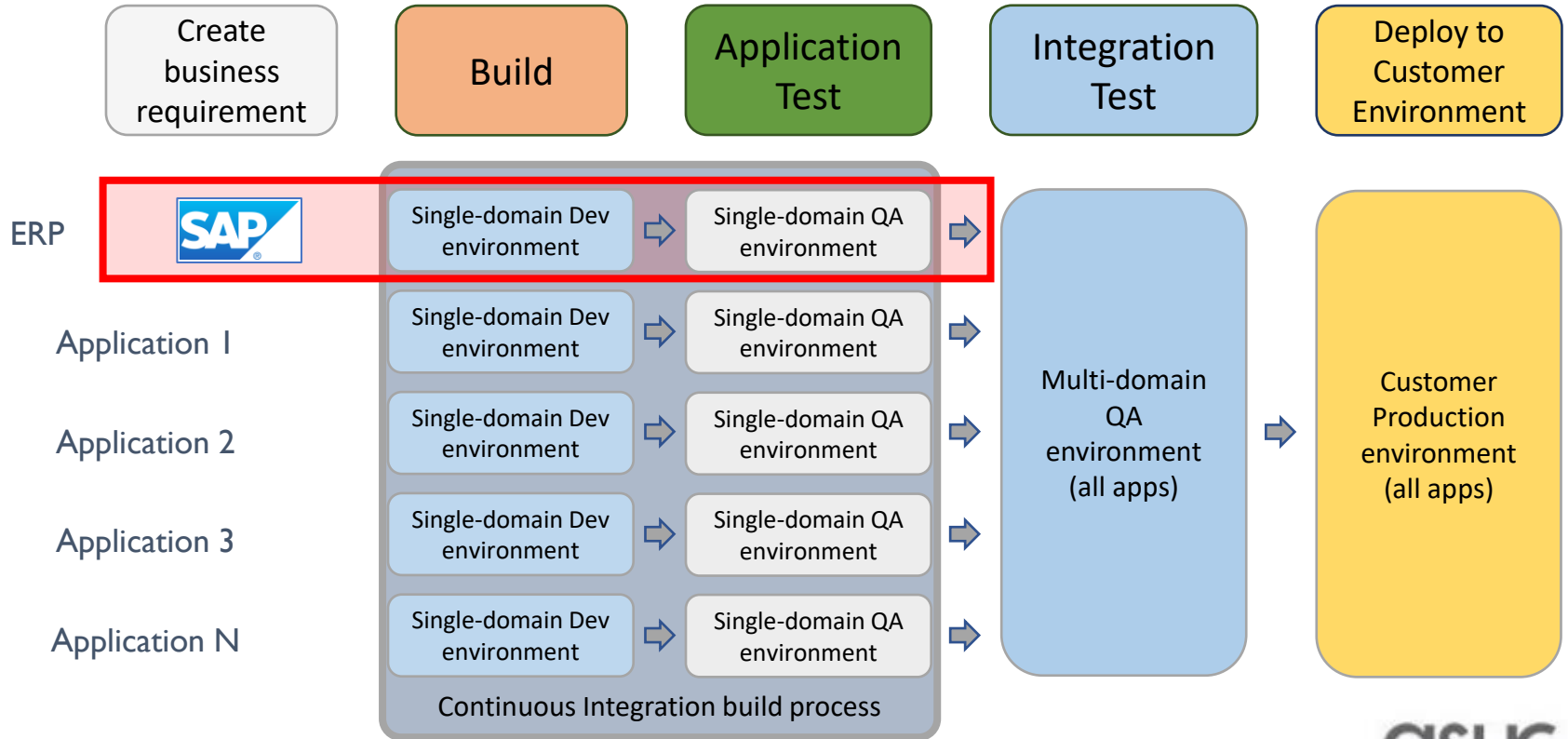
Phase II

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

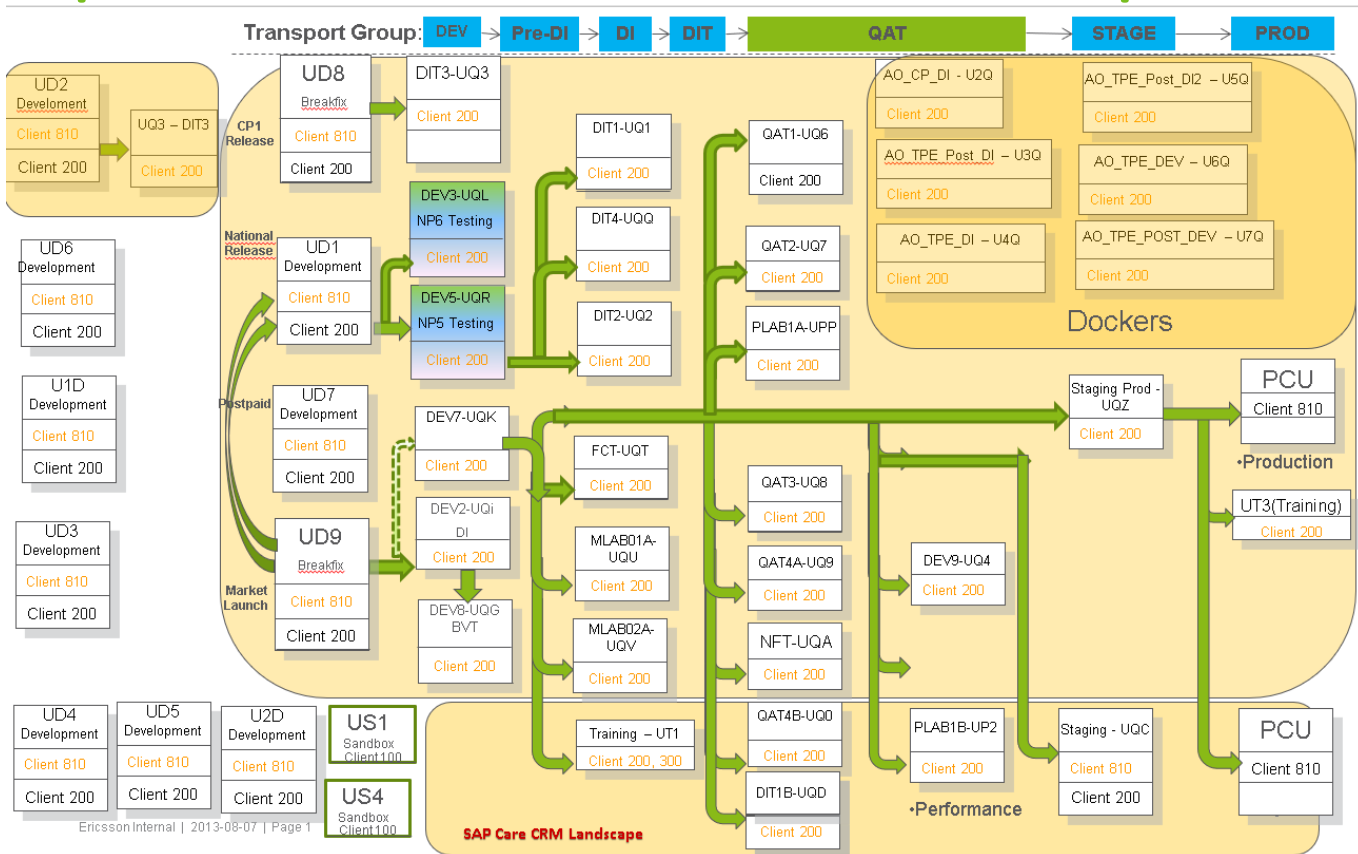
Phase III

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

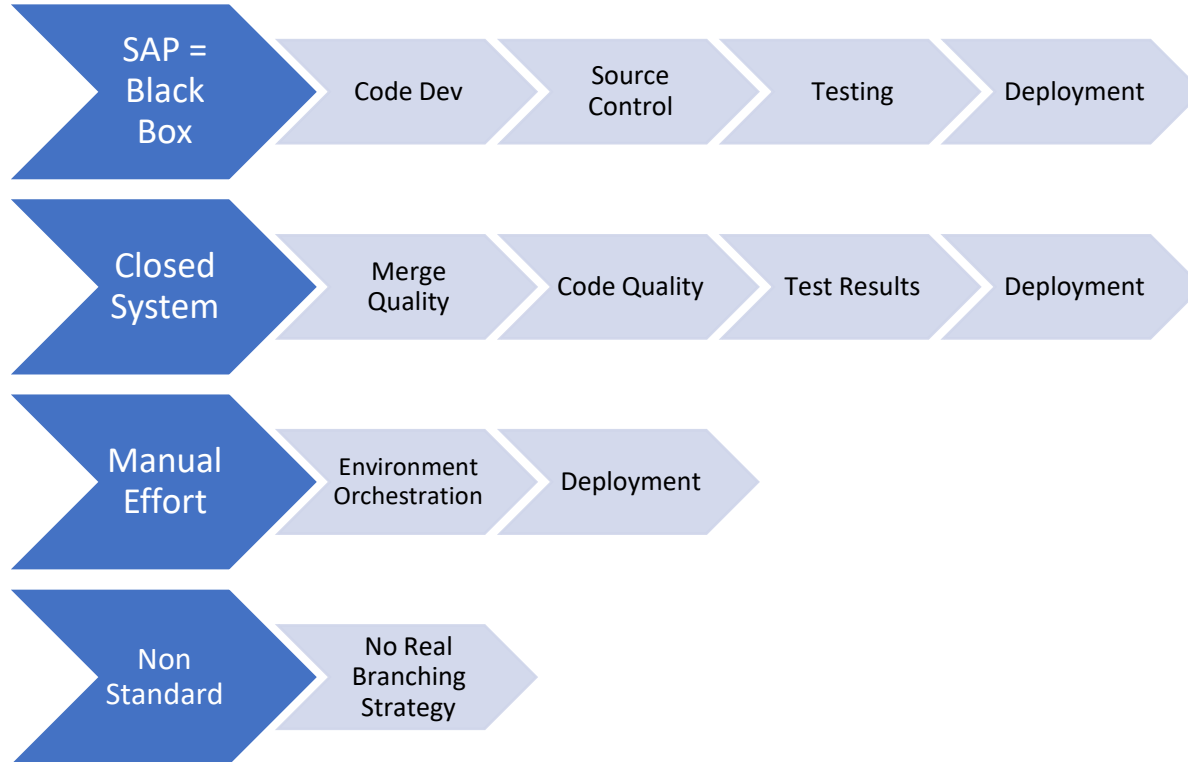
Multi-App Domain Delivery (SAP disconnected)



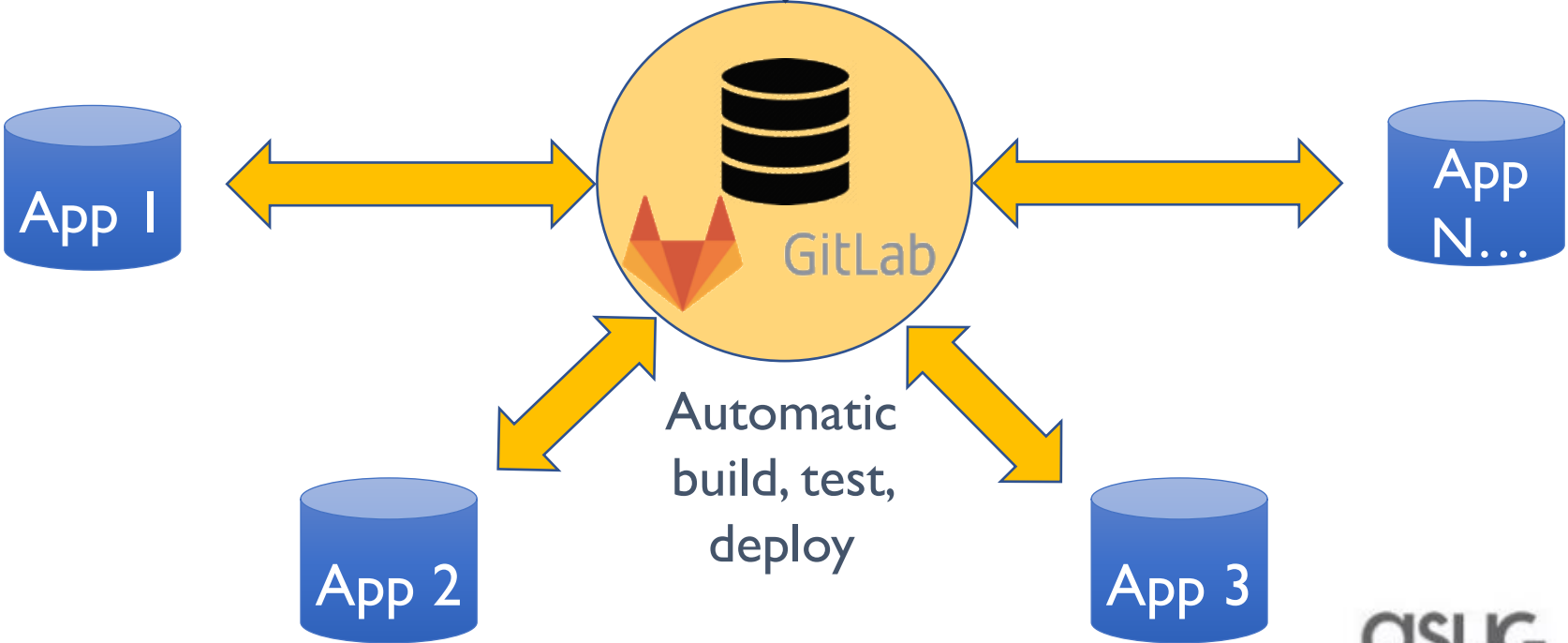
Complex, Multi-track SAP Landscape



DevOps Technical Strategy: SAP Challenges



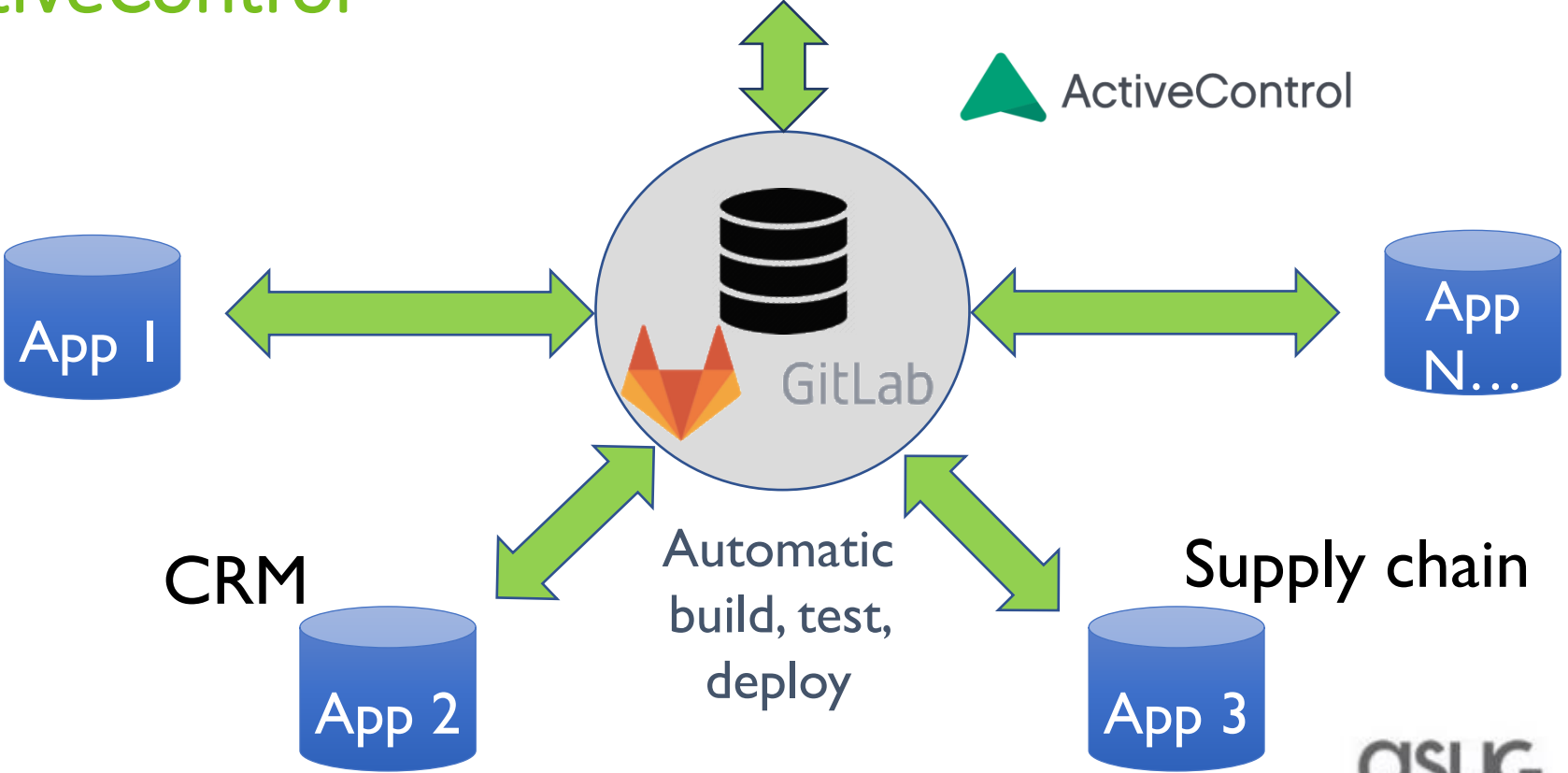
Solving the Problem



Solving the Problem: ActiveControl



ActiveControl





GitLab



GitLab

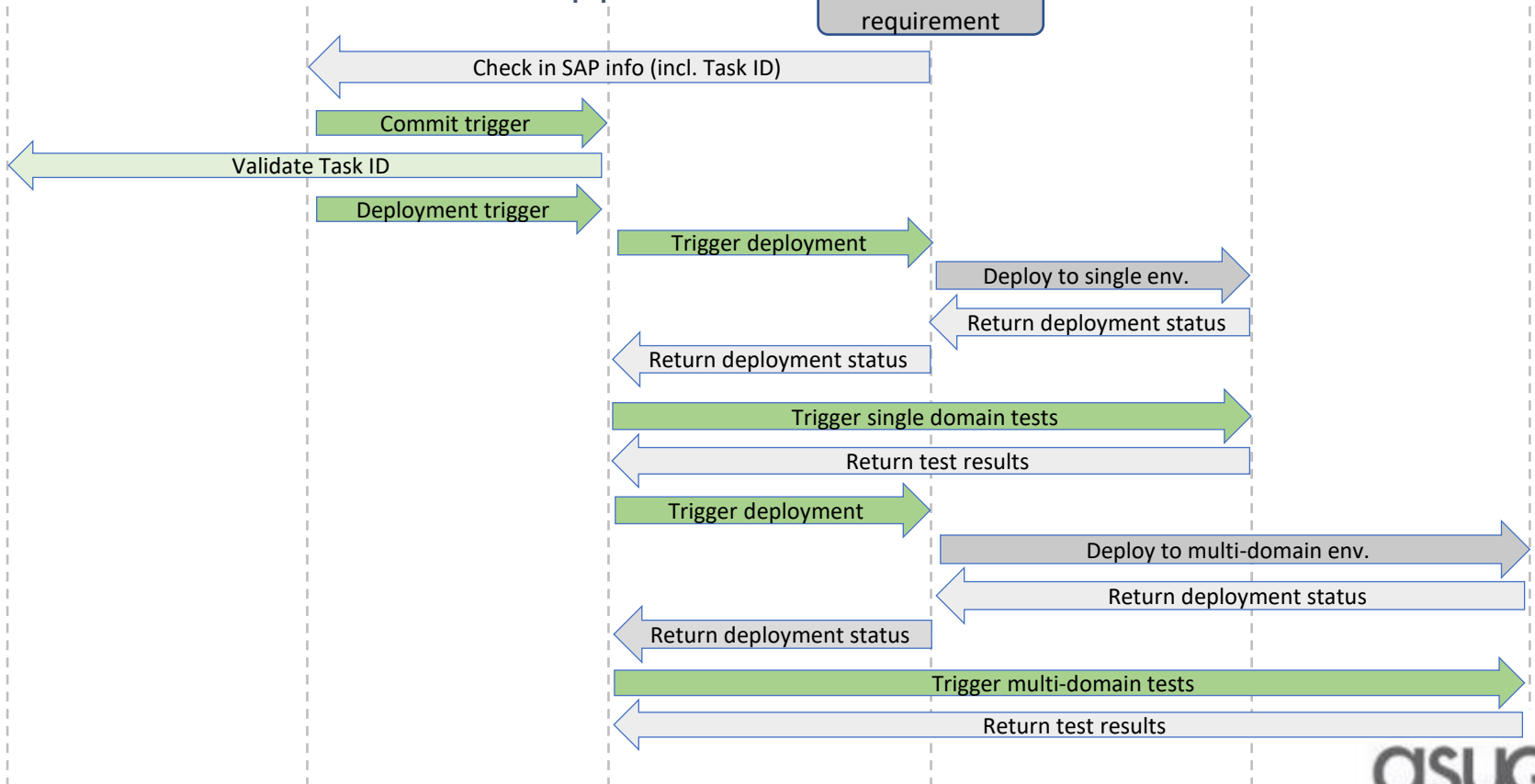
CI pipeline



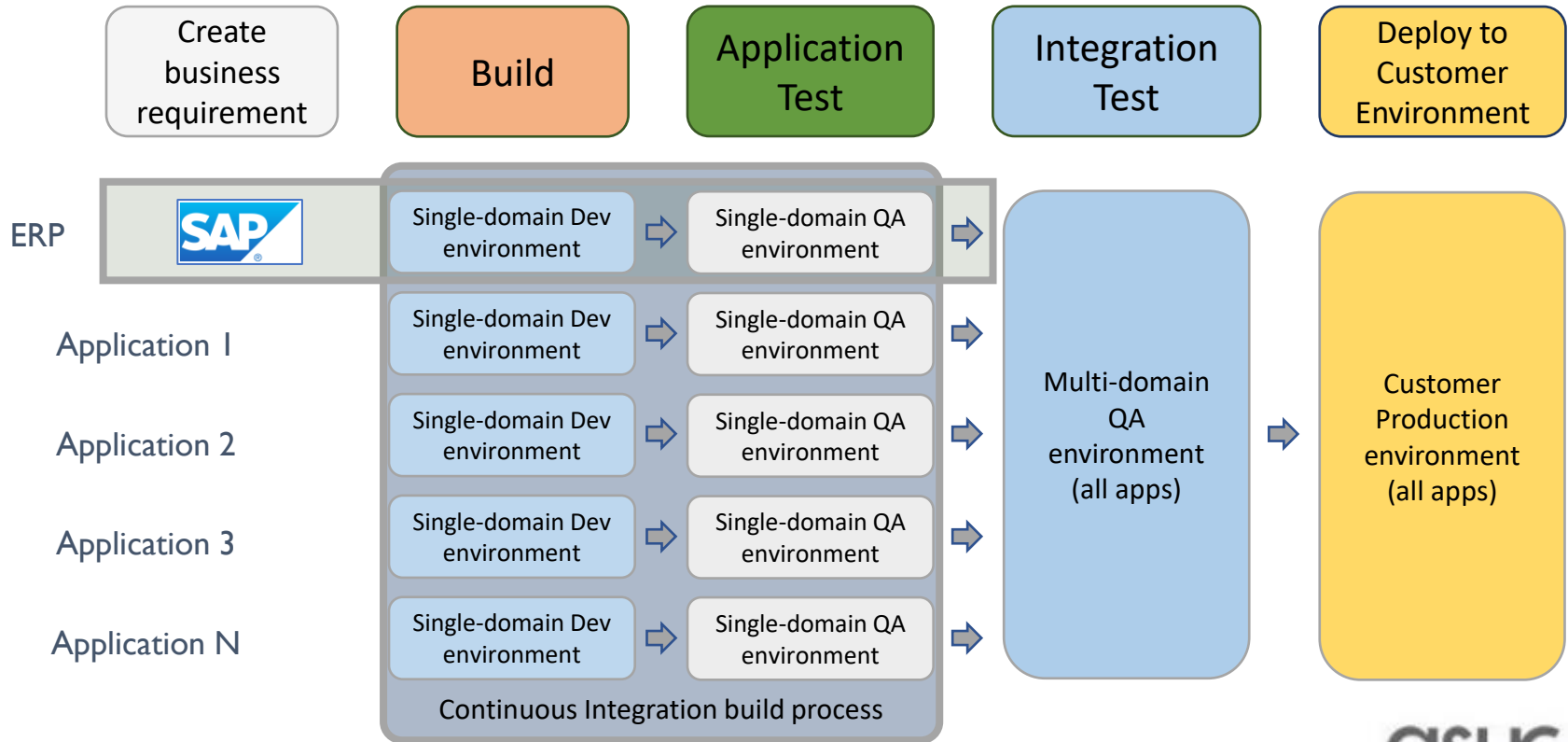
ActiveControl

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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