

# Drive SAP with the Speed of Digital

DXC's CLEVER CI/CD Platform for SAP



# DevOps and CI/CD are common in Agile teams

**DevOps** is a combination of software development (Dev) and operations (Ops). It is defined as a software engineering methodology which aims to integrate the work of software development and software operations teams by facilitating a culture of collaboration and shared responsibility.



## Collaboration

Adopting a DevOps model creates alignment between development and operations teams; handoff friction is reduced and, everyone is all in on the same goals and objectives.

## Shorter cycle time

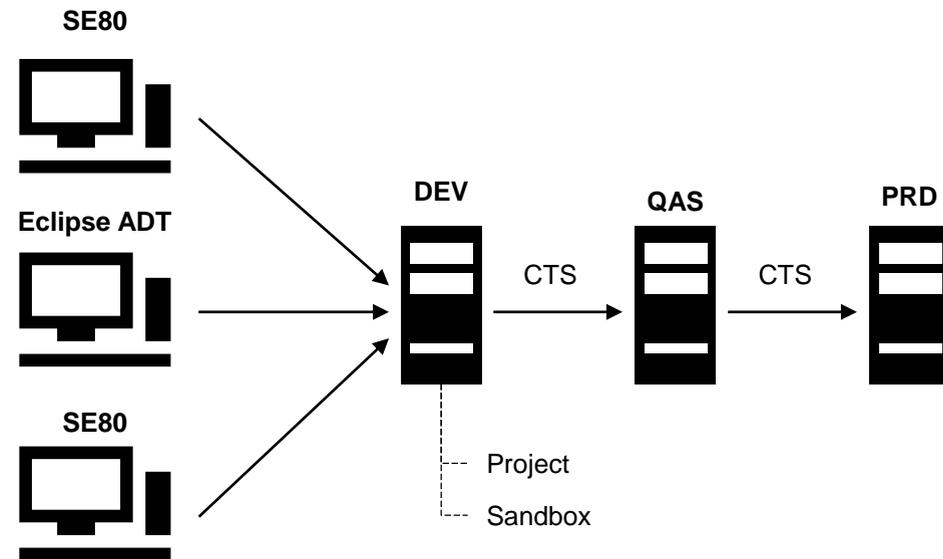
Improved efficiency and frequent communication between teams shortens cycle time; new code can be released more rapidly while maintaining quality and security.

## Fluid responsiveness

More collaboration leads to real-time feedback and greater efficiency; changes and improvements can be implemented quicker and guesswork is removed.

# ... but why ~~is~~ was DevOps in ABAP so “hard”?

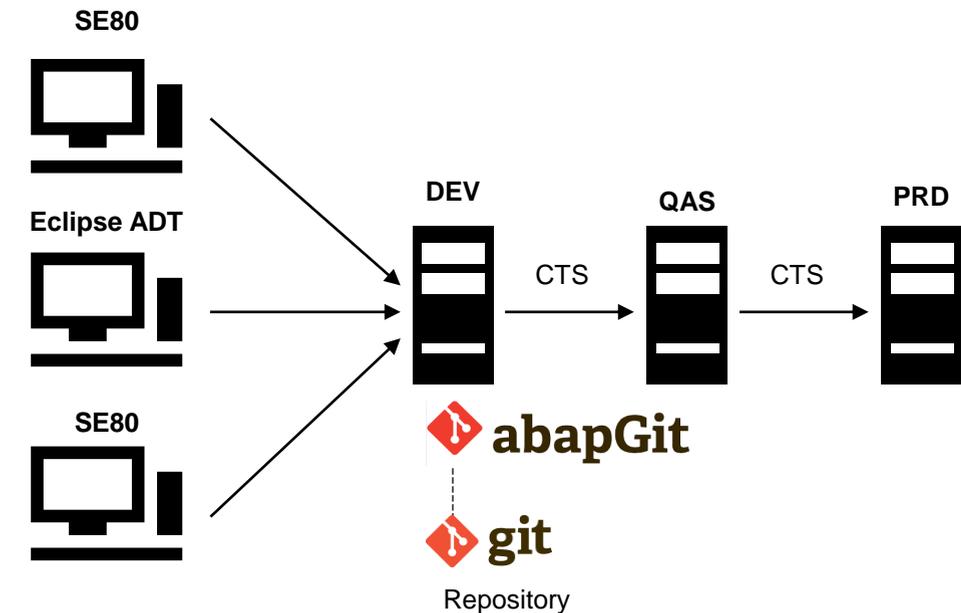
## Classic ABAP Development...



### Dev System

- Source code Repository
- Build Environment
- Artefact Repository
- Runtime environment

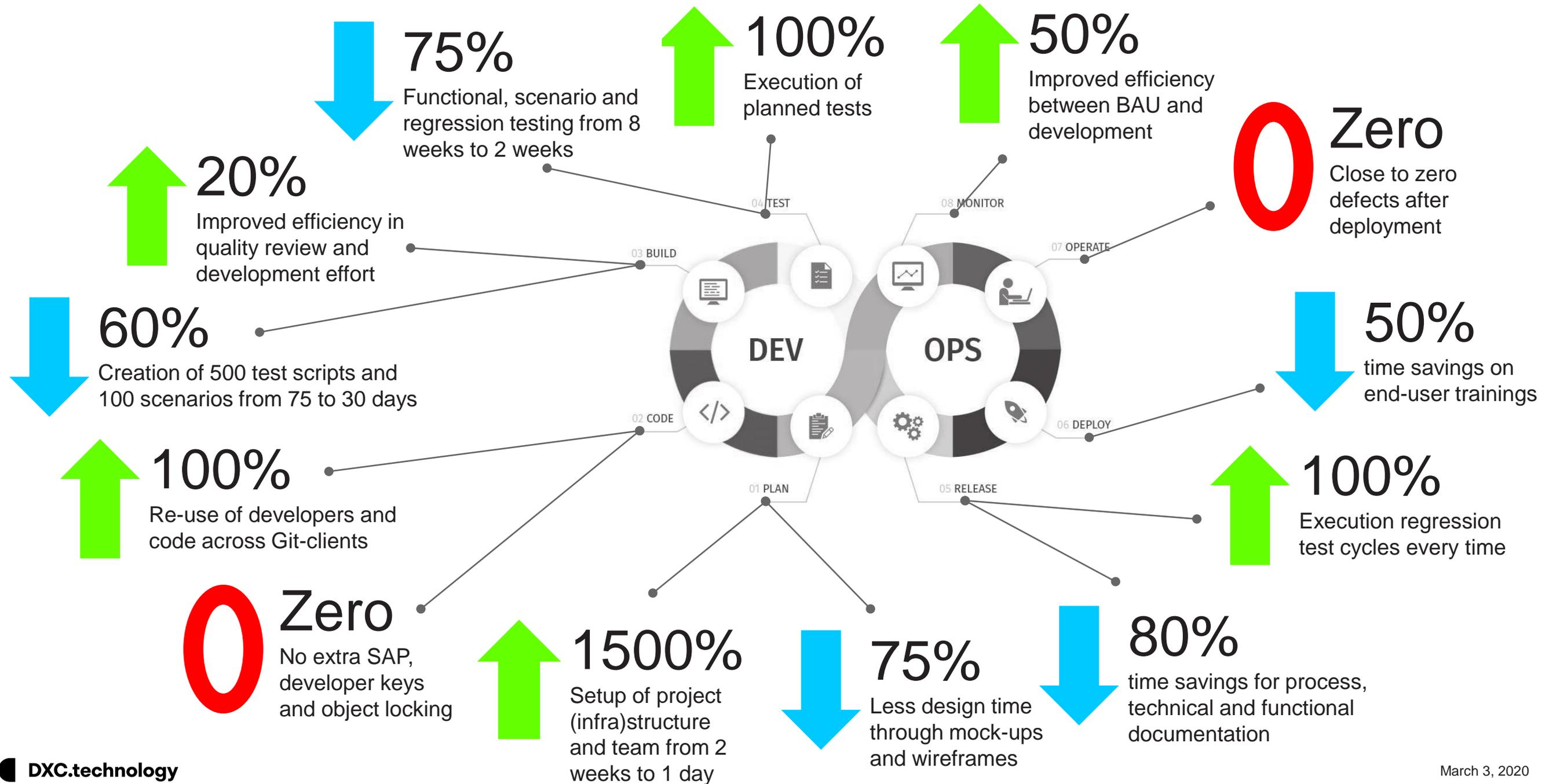
## ... and then we got abapGit!



### abapGit

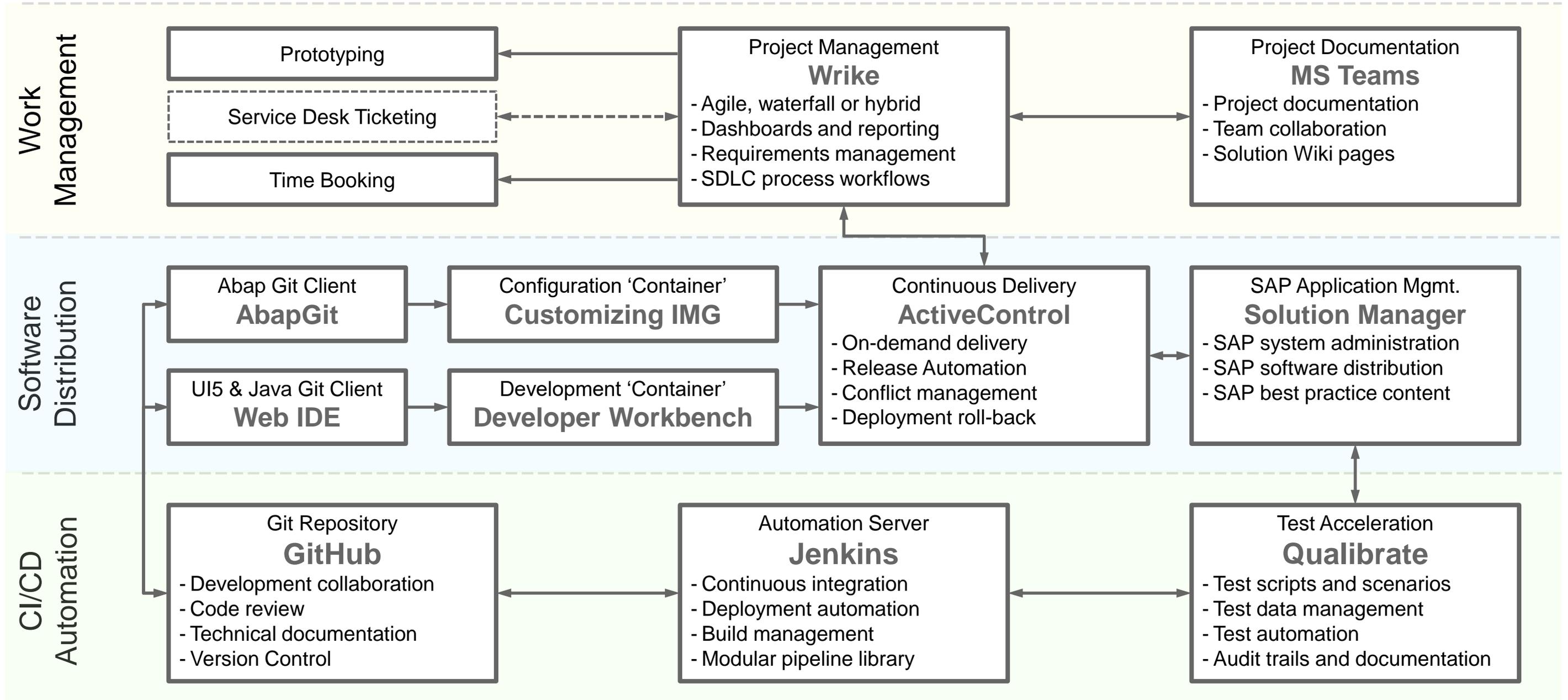
- Enabler for social coding and code review
- Enabler for experiments and rollbacks
- Code versioning and backup
- No replacement of CTS

# We have proved significant benefits in our projects



# Our Agile platform helps clients to thrive on change

DXC's CLEVER platform enables digital transformation and its building blocks allow clients to adopt digital concepts one at a time



# Next level automation is an end-to-end CI/CD workflow

We have setup a suite of digital tools to realise a true DevOps framework.  
By doing this we have realised true CI/CD in any ABAP system landscape, today.

Wrike

abapGit

GitHub

Jenkins

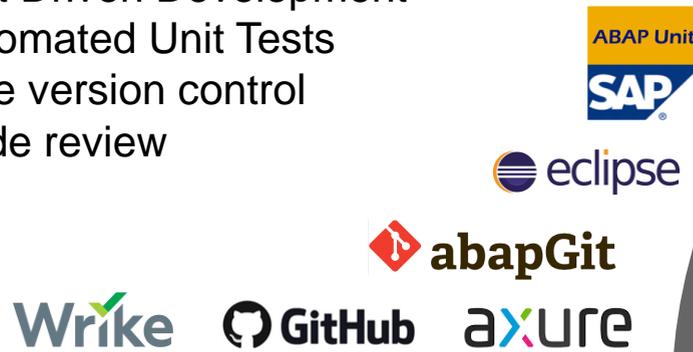
Qualibrate

The image displays a horizontal sequence of five screenshots illustrating a CI/CD workflow:

- Wrike:** A project management interface showing a task board for 'SAMP2 2.2 P2 Initiating a Project'.
- abapGit:** A commit interface for 'GitHub Jenkins POC' with fields for committer name, email, comment, and body.
- GitHub:** A pull request interface for 'Test #2' showing a merge conflict resolution screen.
- Jenkins:** A Jenkins dashboard showing a build queue with two items: '1 Idle' and '2 GitHub\_POC'.
- Qualibrate:** A test execution interface for 'Fiori Create Order' showing a flow sequence of steps like '1.1. Navigate to P\_WEBBROWSER', '2.1. Click on Tile Create Sales Ord...', and '3.1. Click on D...'.

# Automation and smart use of advanced tooling enable true CI/CD workflow in any SAP environment

- Social coding
- Test Driven Development
- Automated Unit Tests
- True version control
- Code review



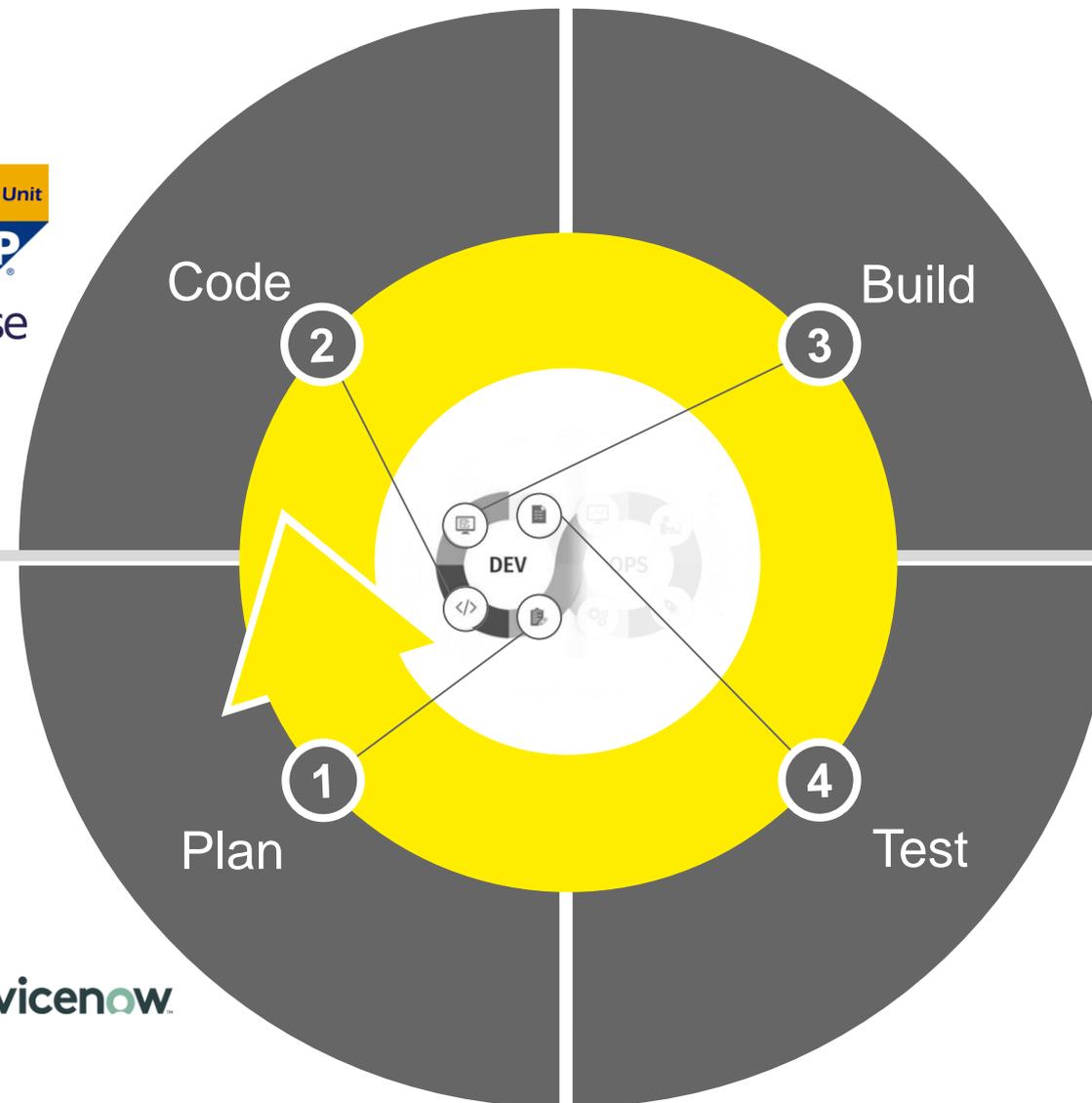
- Build management
- Continuous integration
- Test results dashboard



- Sprint planning
- Local Test Classes
- Defect Management
- Central Test Catalogue



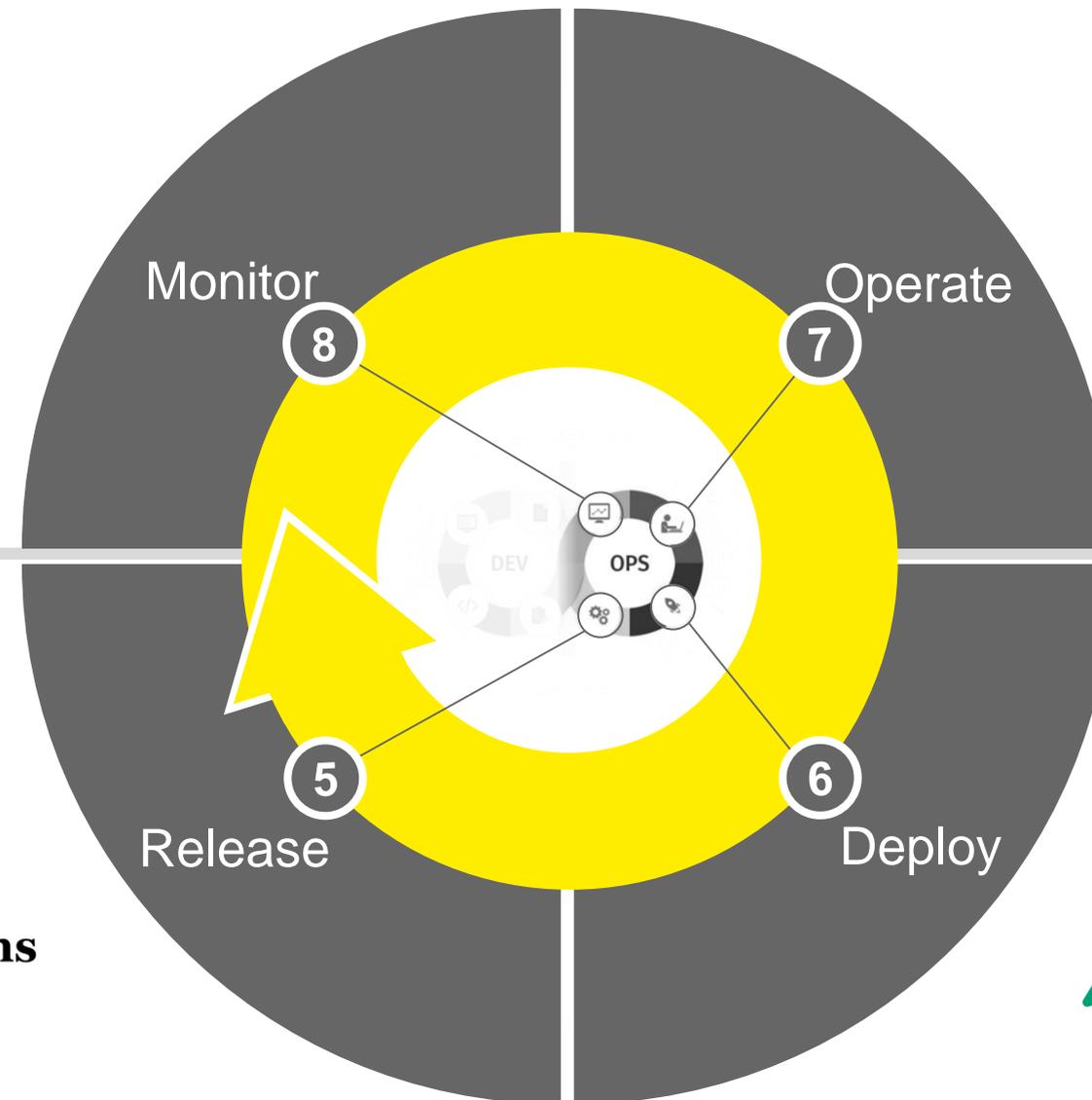
- Automated testing:
- Functional
- Integration
- Regression



# The platform leverages DXC offerings such as CBO4SAP and PaaS4SAP to automate Operations

- CBO4SAP: AutoDetect, autoResolve, autoImprove, autoManage and autoHealth
- Detect-to-correct predictive analytics

- Automated scale up and down and provision SAP resources
- One-click start, stop, suspend and resume of SAP instances
- Basis and database automation



- Semantic versioning
- Release strategy & planning
- SAP transport management
- Audit & compliance

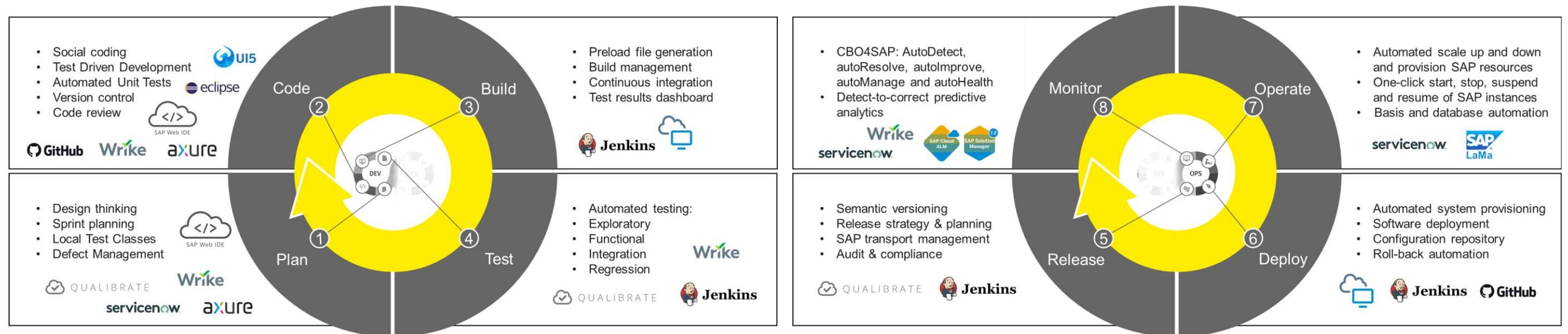
- Automated system provisioning
- Software deployment
- Configuration repository
- Roll-back automation



# The CLEVER platform includes a complete set of tools for SAP UI5 (HTML5) developments too

SAP UI5 is the development tool from SAP toolkit, offering various features that the users can use to enhance their user experience to create apps with rich user interfaces for Web business applications. This tutorial explains the architecture, various key concepts, and important components of SAP UI5.

SAP Web IDE is a powerful, extensible, web-based tool that simplifies both the development of end-to-end SAP Fiori apps and the full-stack (UI, business logic and database) application lifecycle. You can develop, debug, build, test, extend and deploy role-based, consumer-grade apps.



# Next Steps: Learn to walk before you really RUN SAP



**1. Identify the gaps in your SAP value delivery streams**

**2. Analyze what's causing these gaps**

**3. Decide where to start and learn to walk**



# Thank you