

Unlock the potential of DevOps on SAP BTP with SAP Cloud ALM

Moritz Gysler, Boris Zarske – SAP SE



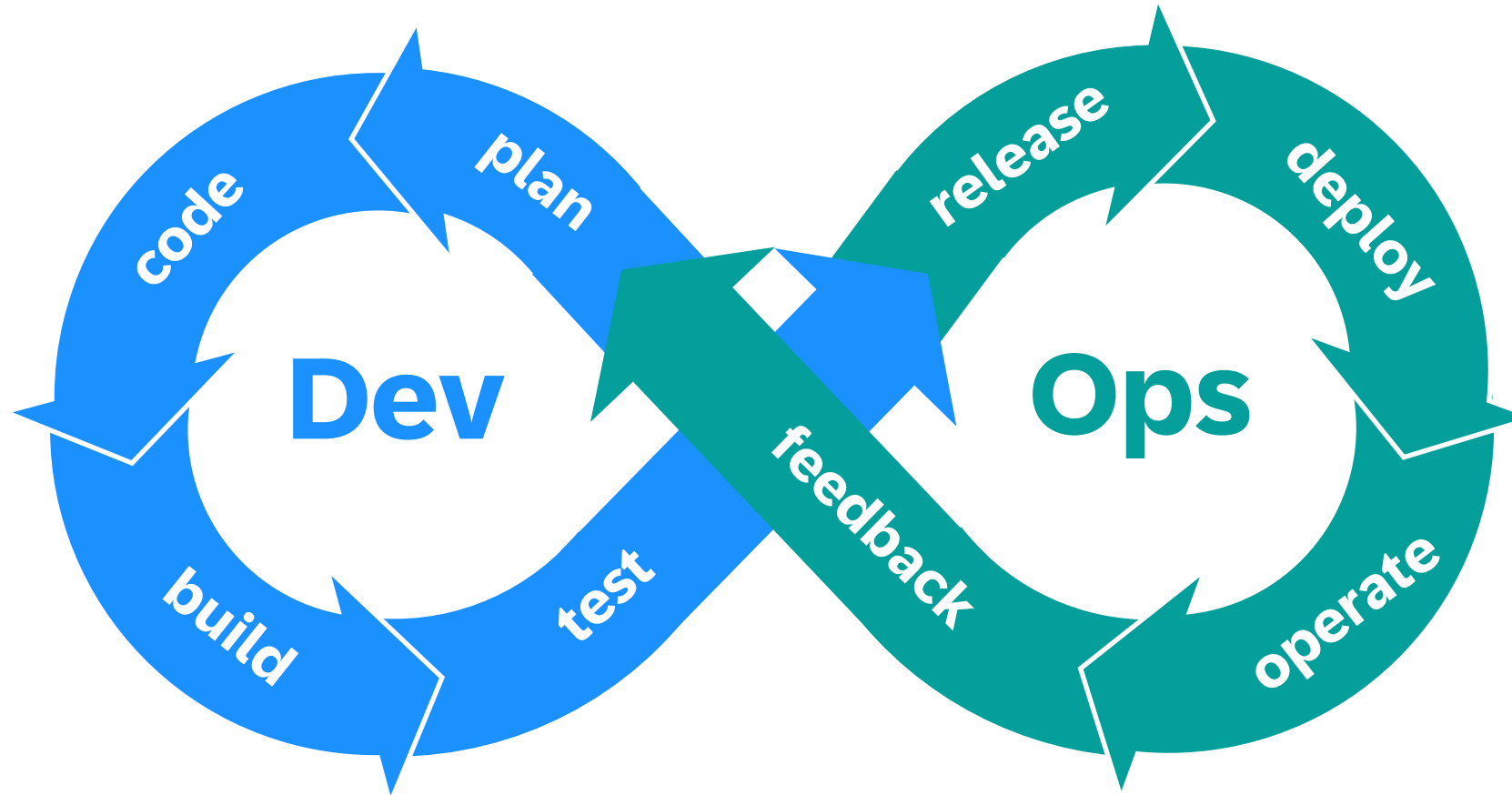
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Agenda



DevOps key principals



Culture



Automation



Lean



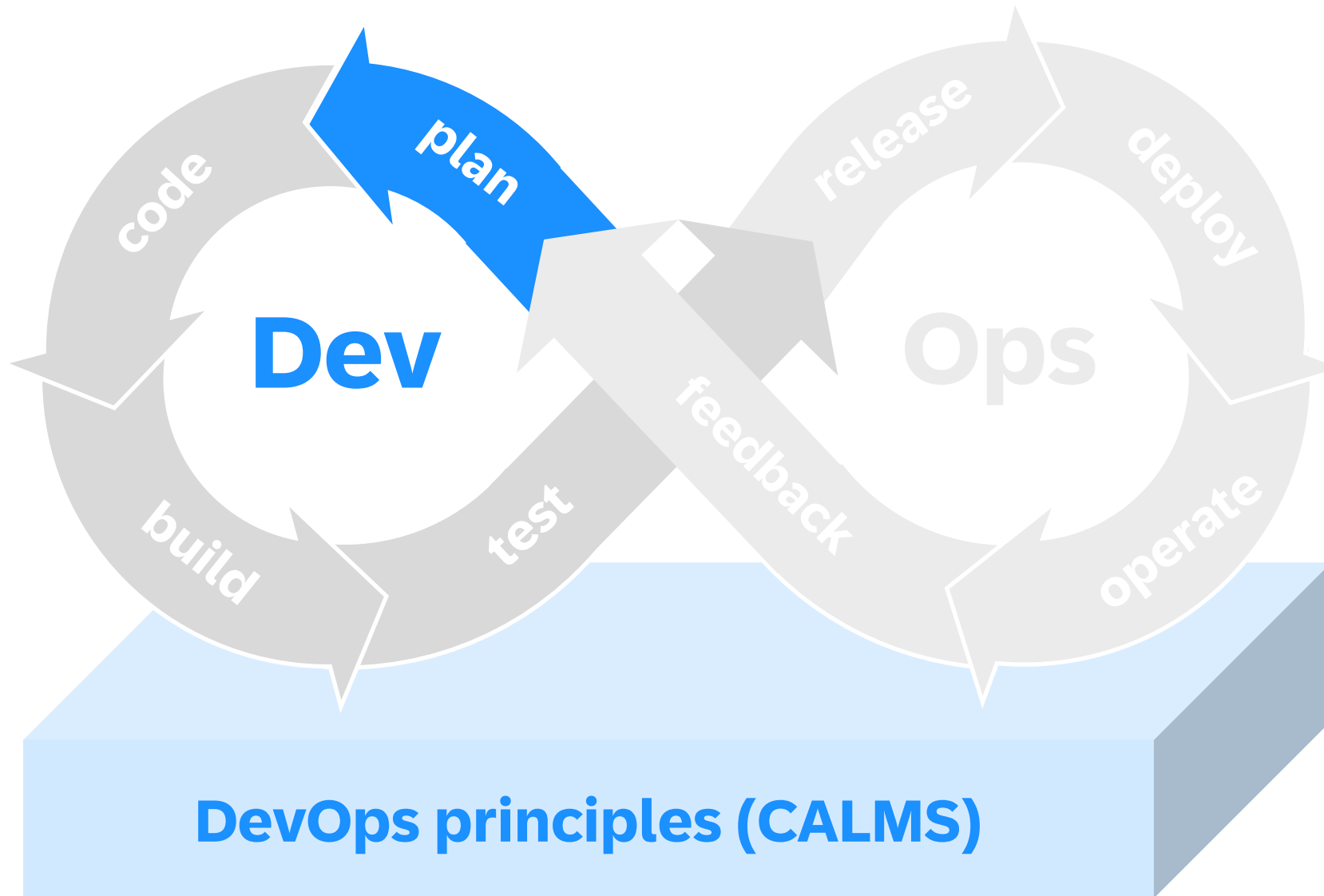
Measurement



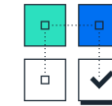
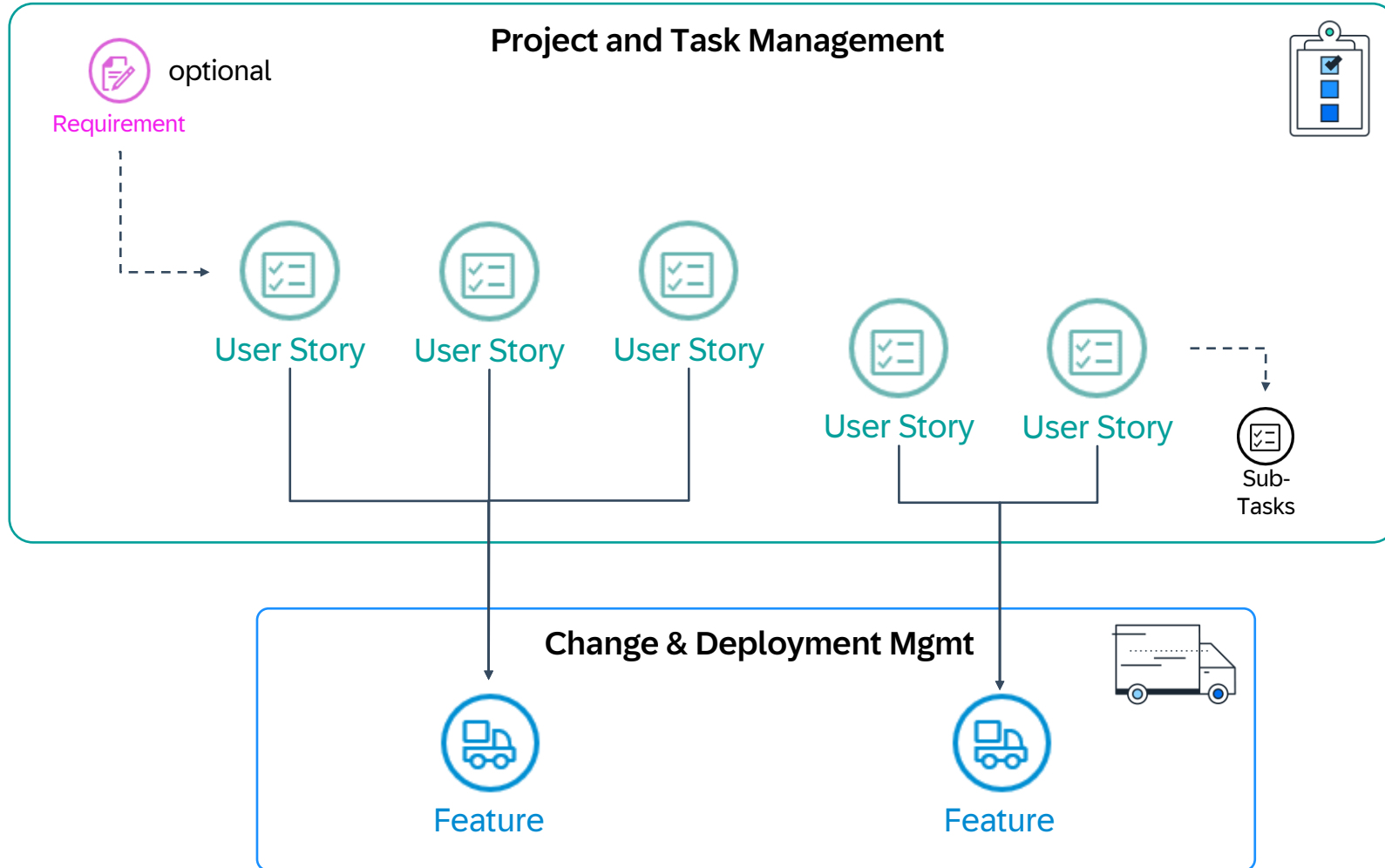
Sharing



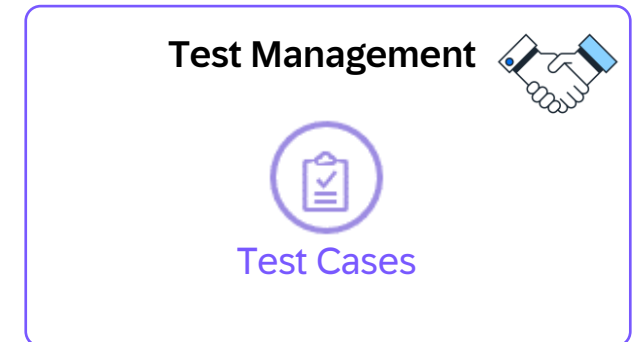
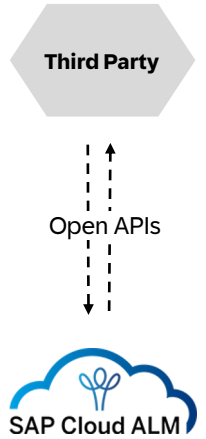
The DevOps continuum



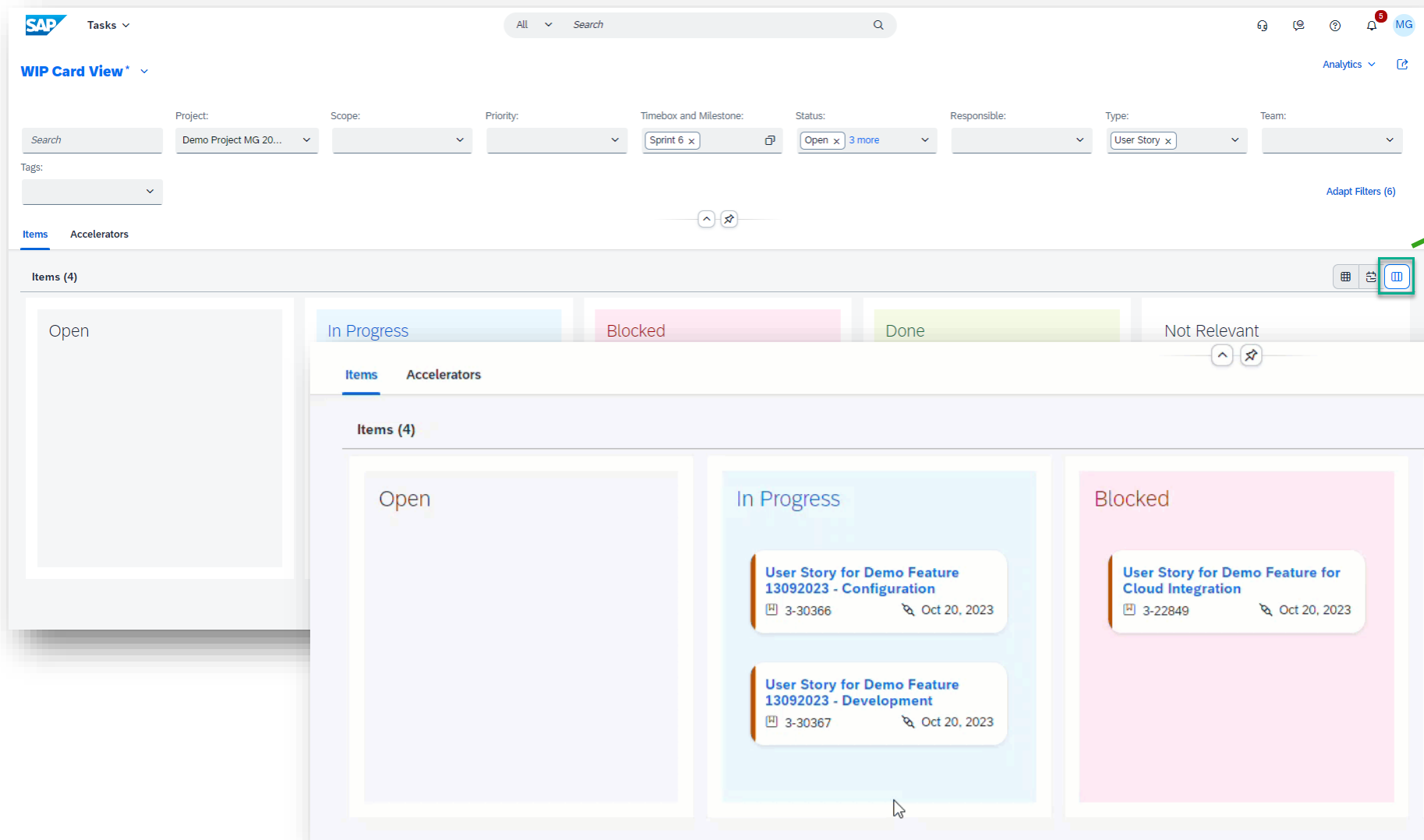
Plan



- APIs for Requirements and User Stories available
- APIs for Features and Test Cases planned for Q2/2024



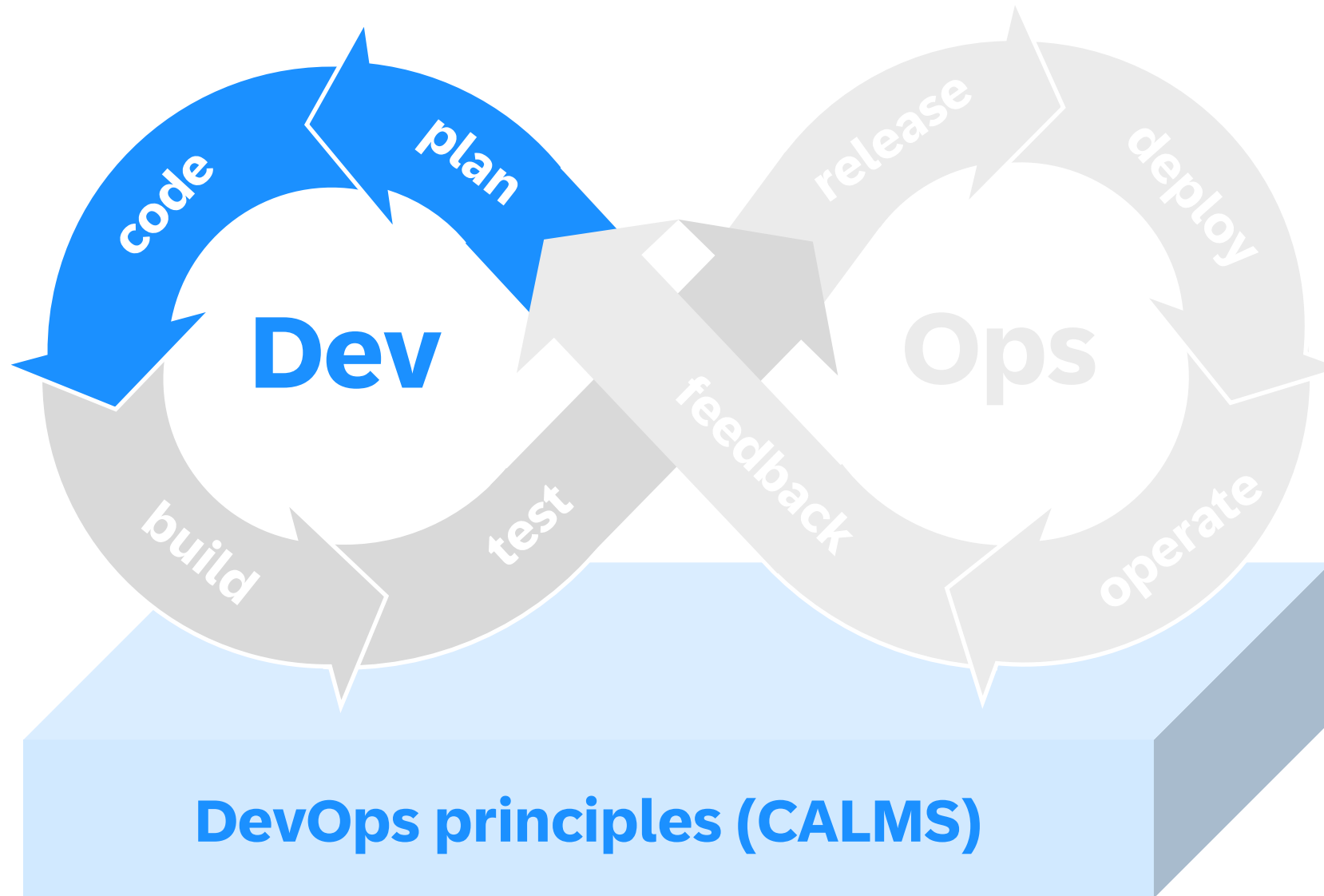
Plan: Work in Progress (WIP)



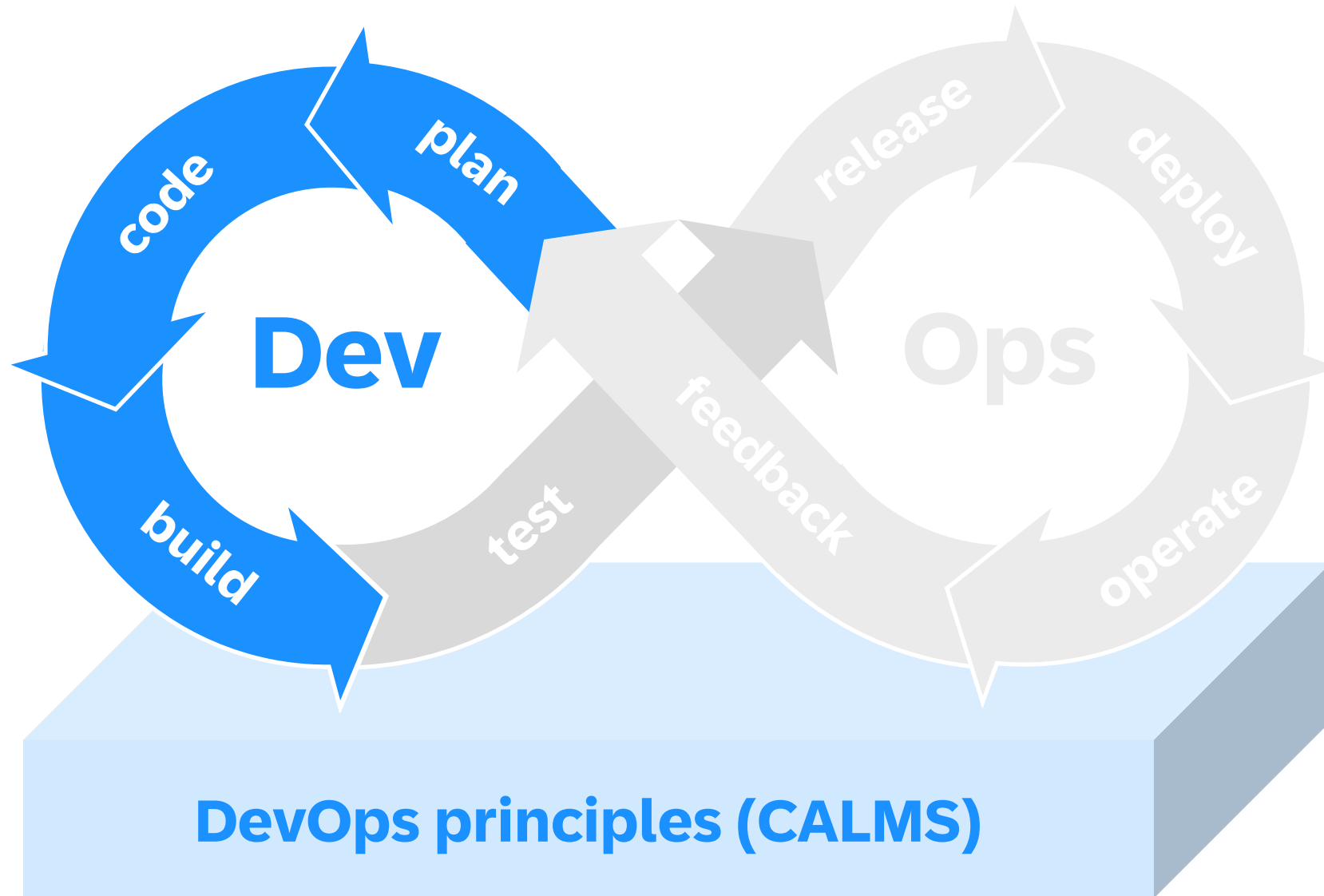
The screenshot shows the SAP Cloud ALM interface for the 'Plan: Work in Progress (WIP)' view. At the top, there is a search bar and navigation icons. Below that, the 'WIP Card View' is selected. The main area contains a filter bar with various dropdowns for Project, Scope, Priority, Timebox and Milestone (set to 'Sprint 6'), Status (set to 'Open' with '3 more' items), Responsible, Type (set to 'User Story'), and Team. There are also 'Adapt Filters (6)' and 'Items Accelerators' options. The main content area is divided into four columns: 'Open', 'In Progress', 'Blocked', and 'Not Relevant'. The 'In Progress' column contains two user stories: 'User Story for Demo Feature 13092023 - Configuration' (ID 3-30366, due Oct 20, 2023) and 'User Story for Demo Feature 13092023 - Development' (ID 3-30367, due Oct 20, 2023). The 'Blocked' column contains one user story: 'User Story for Demo Feature for Cloud Integration' (ID 3-22849, due Oct 20, 2023). The 'Done' column contains one user story: 'US1 for on-prem customizing' (ID 3-28078, due Oct 20, 2023). A green arrow points from the text on the right to the 'Card View' icon in the top right of the main area.

Card view per Sprint provides a good overview of your WIP or any blocking topics

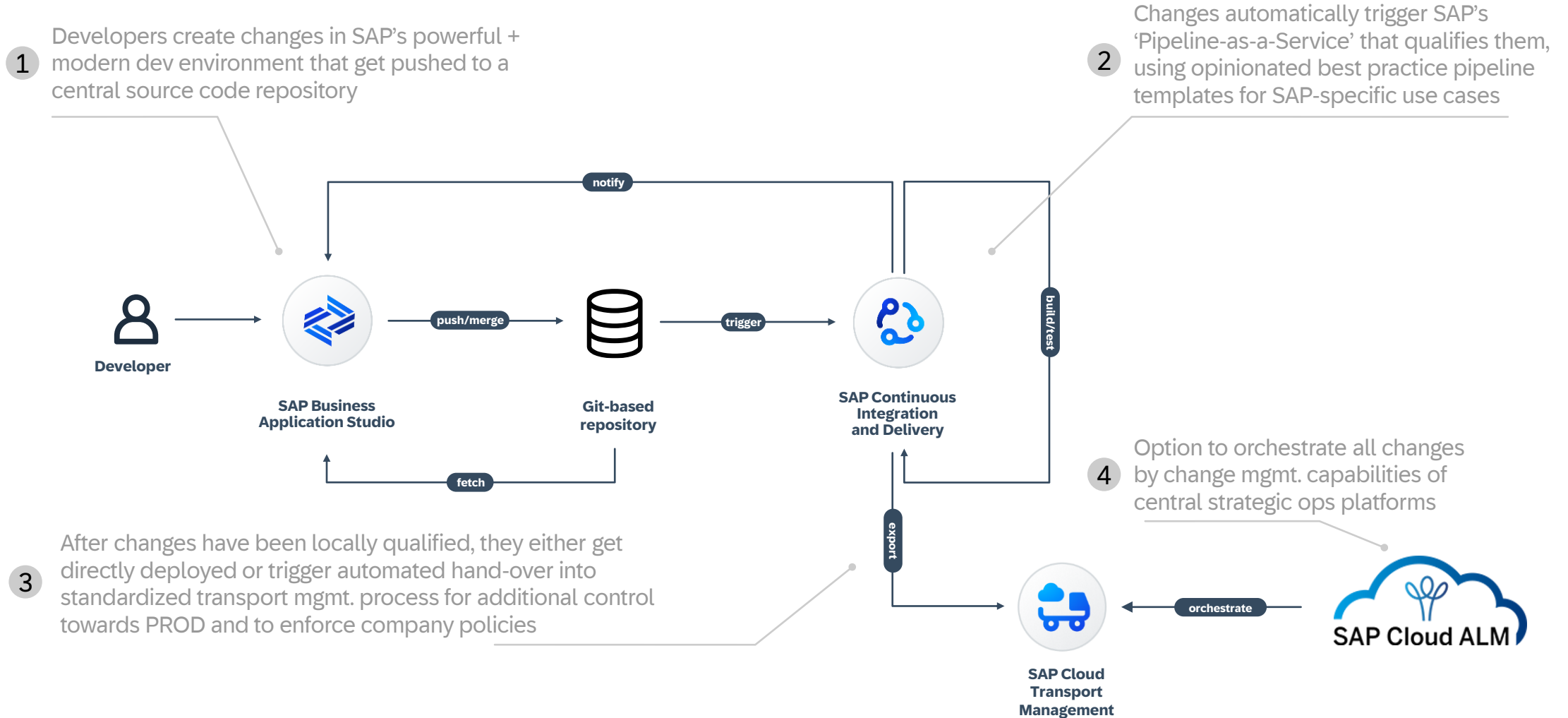
The DevOps continuum



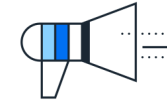
The DevOps continuum



Code & Build



Build: Set up CI/CD efficiently for SAP environments



SAP Continuous Integration and Delivery
Increased pipeline flexibility – adjust pipeline configuration to enable more-customized pipeline flows ([blog post](#)), support of custom identify providers

Git-enabled CTS
Tags, dependencies, background activities, easier collaboration on Git repositories ([blog post](#))



SAP Continuous Integration and Delivery

who For SAP customers and partners with ABAP background transitioning into the cloud

what The service provides a golden path for customers and partners that develop SAP-specific scenarios – with certain degrees of freedom

where SAP BTP service, regional coverage (EU, US, APJ), Azure + AWS available, Trial + Free Tier

how No own infrastructure required, running pipeline in minutes, support provided by SAP



Simplicity

for typical SAP business application developers



Project “Piper”

who For experienced customers that need full flexibility

what Enablement, learnings and open source CI/CD library for custom CI/CD pipelines, covering many SAP-specific scenarios

where Customers/partners must bring their own CI/CD stack, widely used also SAP-internally

how CI/CD expertise required, you build pipeline on separate infrastructure – running pipeline in hours/days, no direct support by SAP



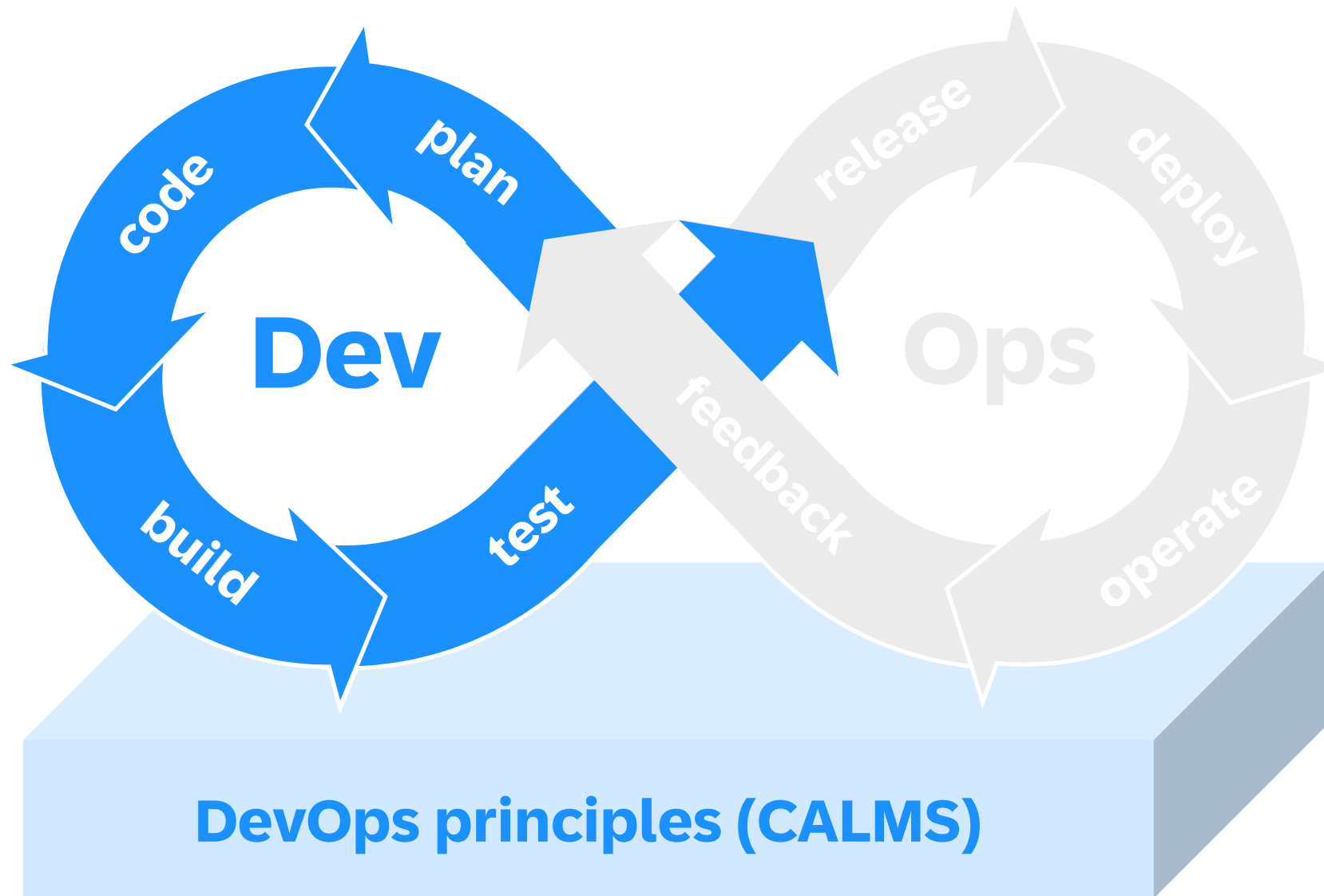
Full flexibility

to automate complex and customer-specific development scenarios

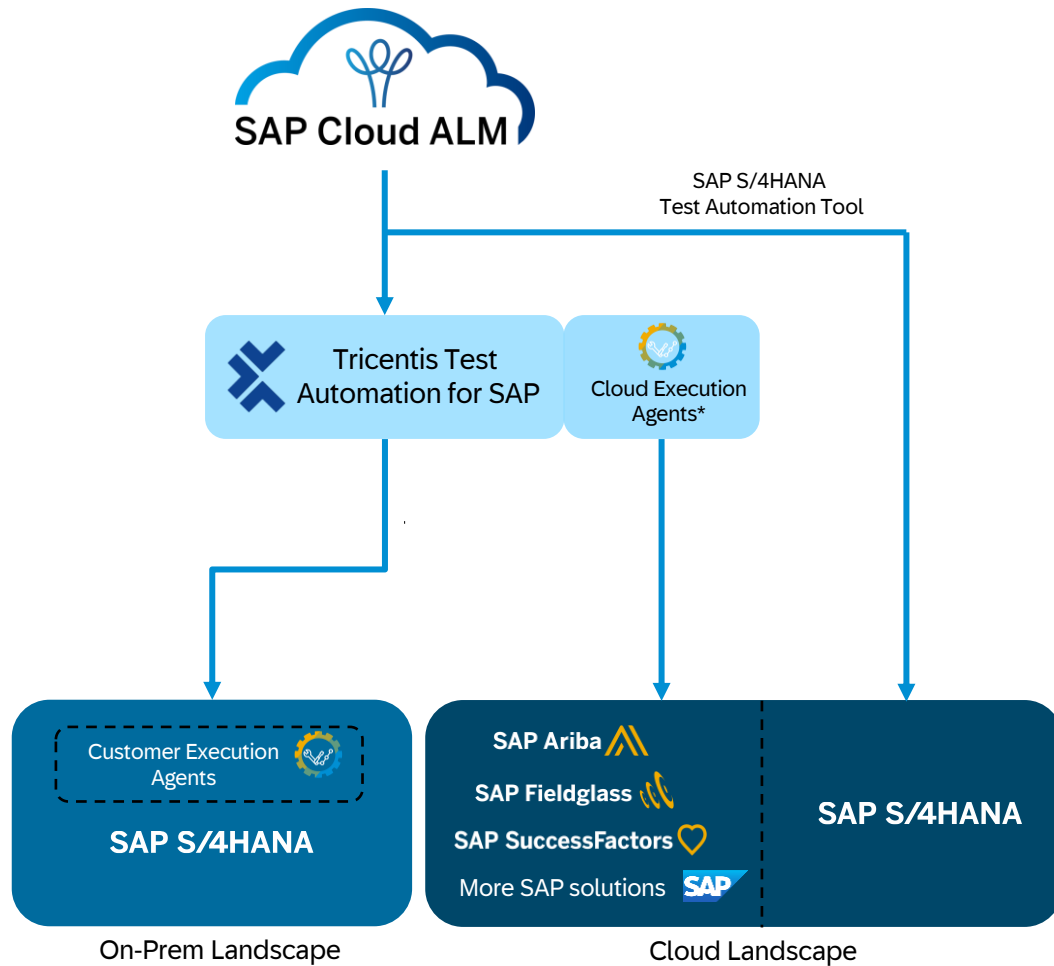
Demo



The DevOps continuum



Test: Tricentis Test Automation for SAP integrated with SAP Cloud ALM



What's in it for you

- Out of the box
- Easy to use
- Native integration
- Managed by SAP

Plan, prepare and execute automated test cases

Full traceability by integration in all SAP Cloud ALM entities

- Automated Testing for all
- Browser based UIs
 - APIs & Integrations
 - SAP GUIs*

Usage rights

Included in SAP Enterprise Support and subscription

Automated testing of SAP solutions

- 5 named Users
- 2.5 GB Storage
- 500 Tests / month

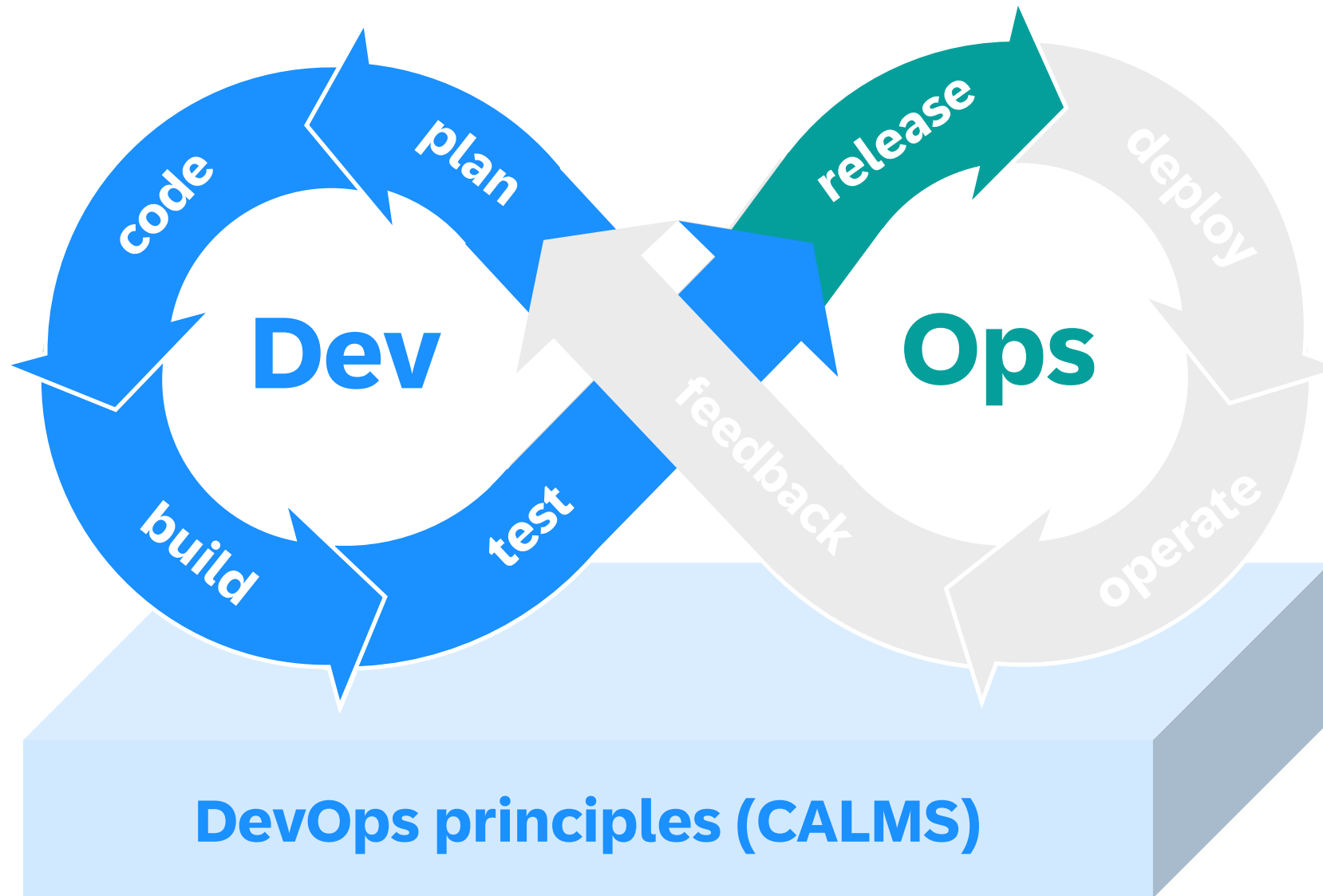
Provisioning

Request directly in SAP Cloud ALM

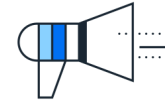
Automated provisioning in 5 minutes

Automatically connected with SAP Cloud ALM

The DevOps continuum



Release: Defined hand-over from dev to ops

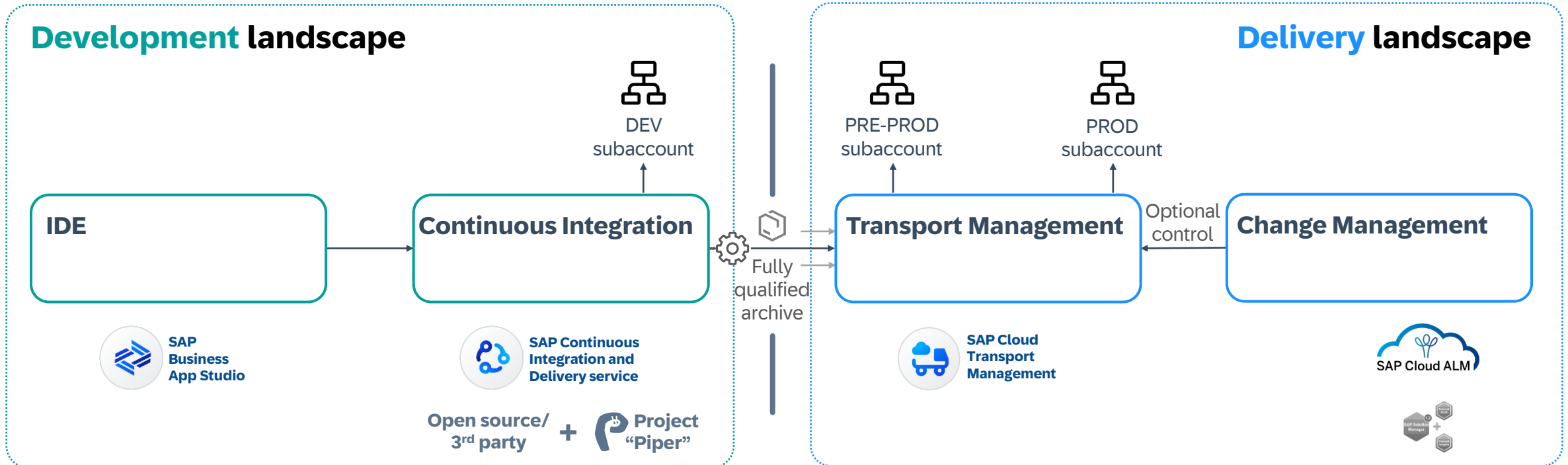


SAP Cloud Transport Management & SAP Content Agent

Central transport of additional cloud content types: of SAP BTP ABAP environment, SAP Build Work Zone, SAP Build Process Automation, SAP Analytics Cloud, SAP Mobile Services, role collections ([SAP Help Portal](#)), virtual nodes

- Based on *Continuous Integration* principles (pipeline, tight feedback loop)
- Managed & owned by **local DevOps team**
- Verification of **single developer change**
- Typically fully **automated**

- Based on strict *Transport Management* rules (policies, schedules)
- **Centrally managed** by ops/approvers
- Verification of **release candidate** version
- Typically done with **manual confirmation**



SAP BTP DevOps and Observability in Action

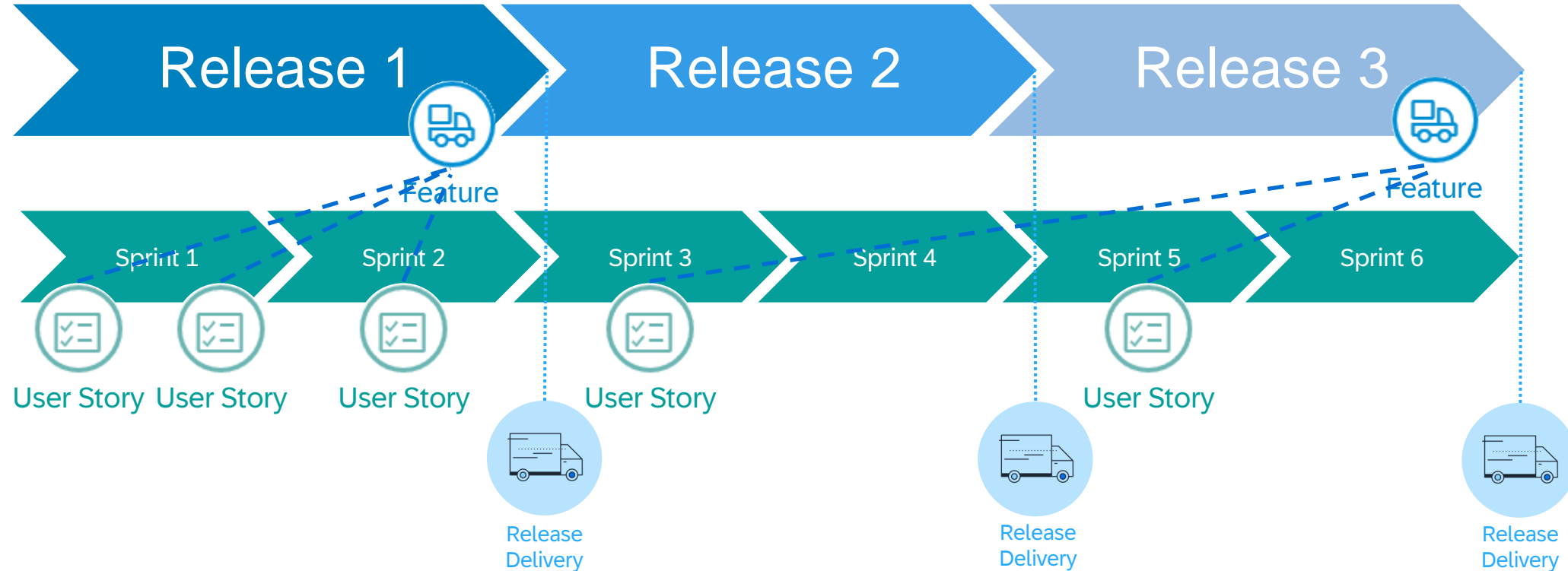
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Unlock the potential of DevOps on SAP BTP with SAP Cloud ALM	Overview lecture	April-23, 2024
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Link to series: [SAP BTP DevOps and Observability in Action](#)



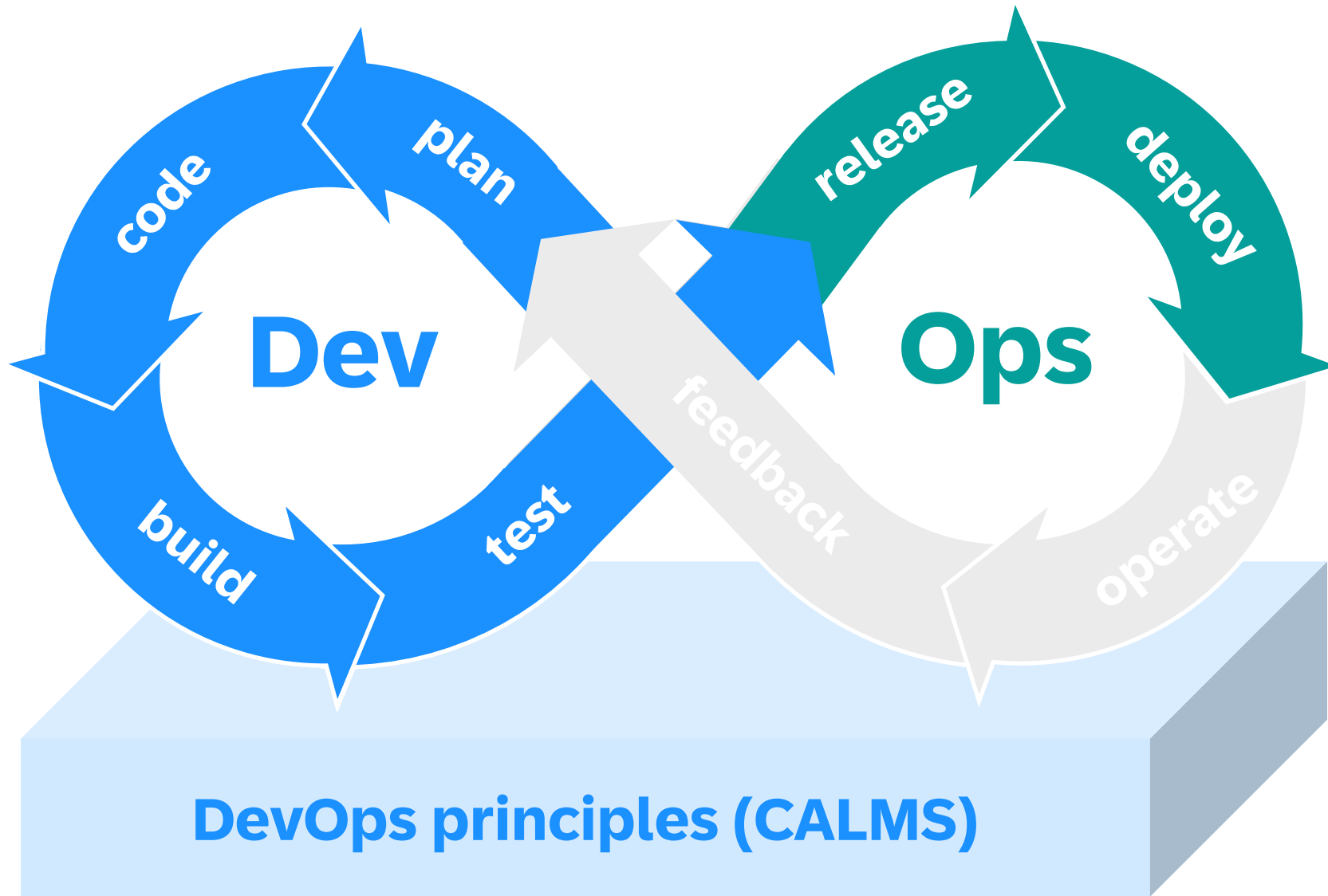
Release



User Stories will be assigned to sprints

Deployment of Features will be planned based on Releases

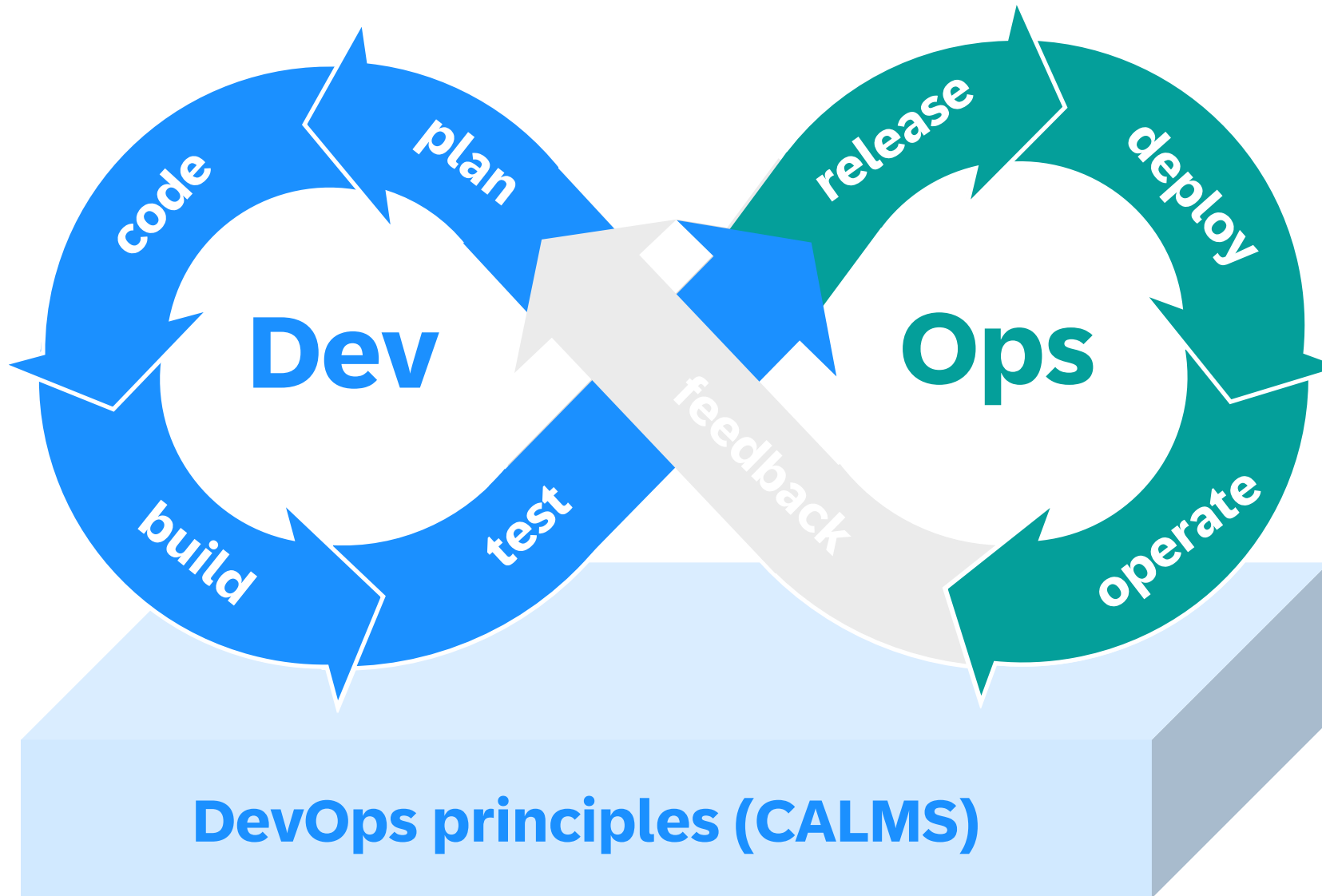
The DevOps continuum



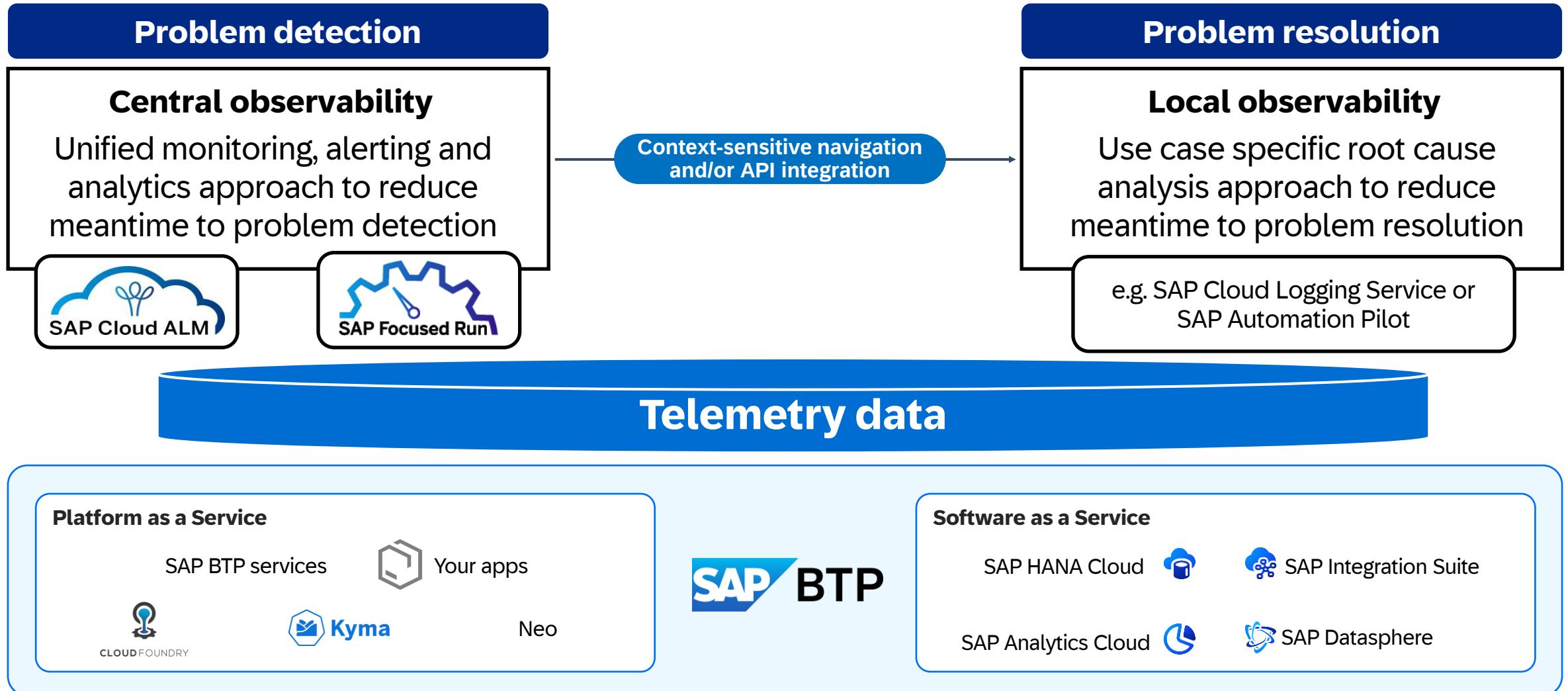
Demo



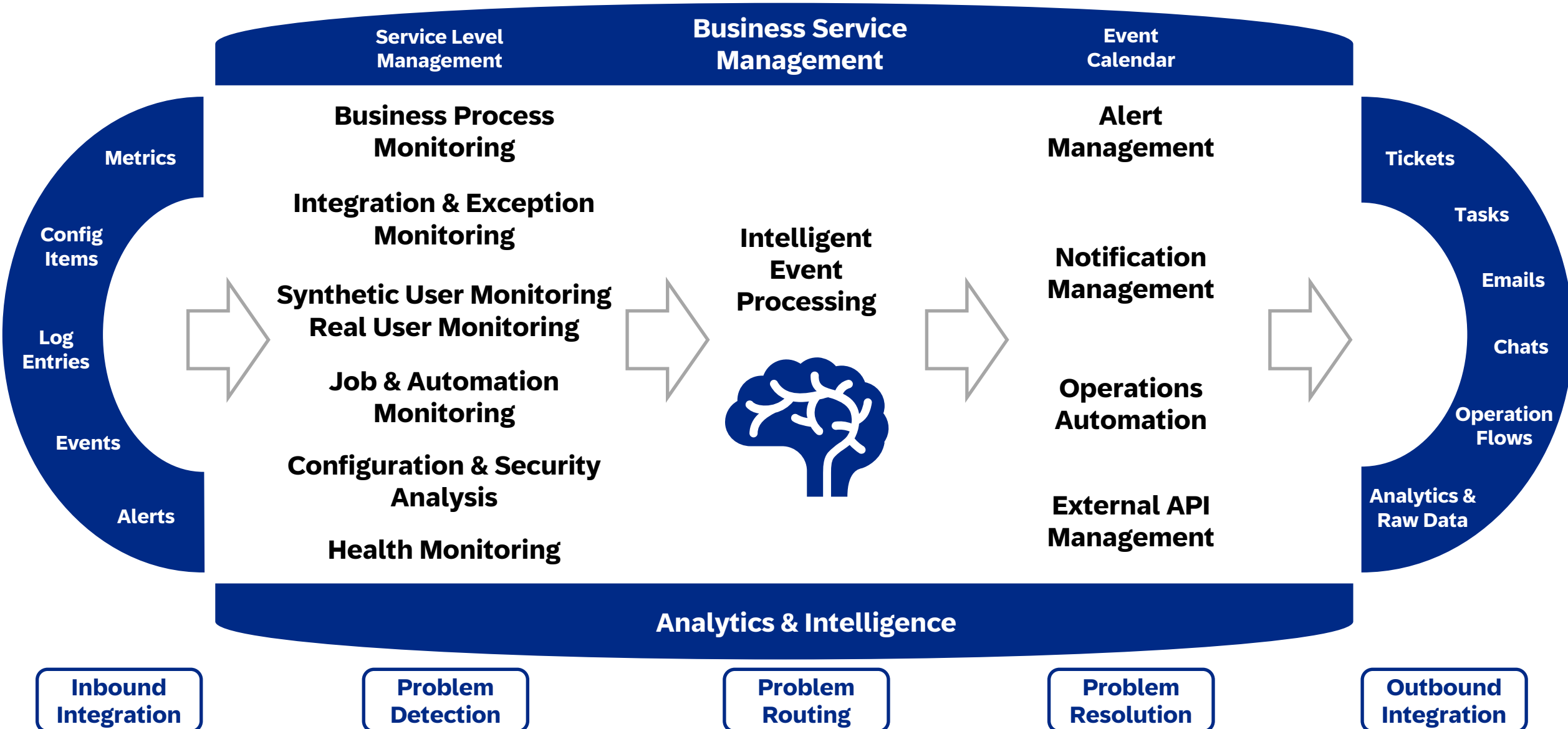
The DevOps continuum



Operate: Problem Detection & Problem Resolution for SAP BTP



Operate: SAP Cloud ALM for Operations – Functional Overview



Operate: SAP Cloud ALM – Content Roadmap for SAP BTP

	Currently available		Planned	
Integration Monitoring	SAP Integration Suite - Cloud Integration SAP Master Data Integration SAP Event Broker	SAP Master Data Governance Cloud edition SAP Mobile Services SAP Data Intelligence	SAP Integration Suite - Edge Integration Cell Enhancements for SAP Event Broker SAP Integration Suite - SAP Event Mesh and SAP Advanced Event Mesh	
Exception Monitoring	SAP Analytics Cloud SAP BTP, ABAP - PaaS CAP BTP, NEO - PaaS SAP BTP, CF / Kyma - PaaS (java)	Integration with SAP Cloud Logging	SAP BTP, CF / Kyma - PaaS (node.js) Integration with SAP Application Logging Service	
Real User Monitoring	SAP BTP, ABAP - PaaS SAP BTP, NEO - PaaS SAP BTP, CF & Kyma - PaaS (java/node.js)		SAP Analytics Cloud SAP Workzone Service Integration with SAP Cloud Logging	
Job & Automation Monitoring	SAP BTP, ABAP - PaaS SAP BTP, CF & Kyma - PaaS (java/node.js) SAP Intelligent RPA SAP Build PA (Jobs)		SAP Build PA (Processes) SAP Data Privacy Management	SAP DataSphere SAP Analytics Cloud
Configuration & Security Analysis	SAP BTP, Credential Store SAP BTP, Identity Authentication		SAP BTP, Mobile Service SAP BTP, Destination Service SAP HANA Cloud	
Health Monitoring	SAP BTP, ABAP, Neo - PaaS SAP BTP, CF & Kyma - PaaS (java/node.js) SAP Build PA (Jobs) SAP Cloud Connector	SAP Intelligent RPA SAP Integration Suite (CI, APIM) SAP HANA Cloud & BTP Neo DB Integration with SAP Cloud Logging	SAP Edge Integration Cell SAP Event Broker	SAP DataSphere SAP Analytics Cloud

SAP BTP DevOps and Observability in Action

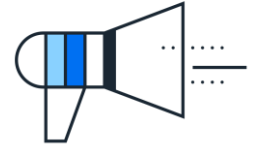
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Operate: Selected key improvements

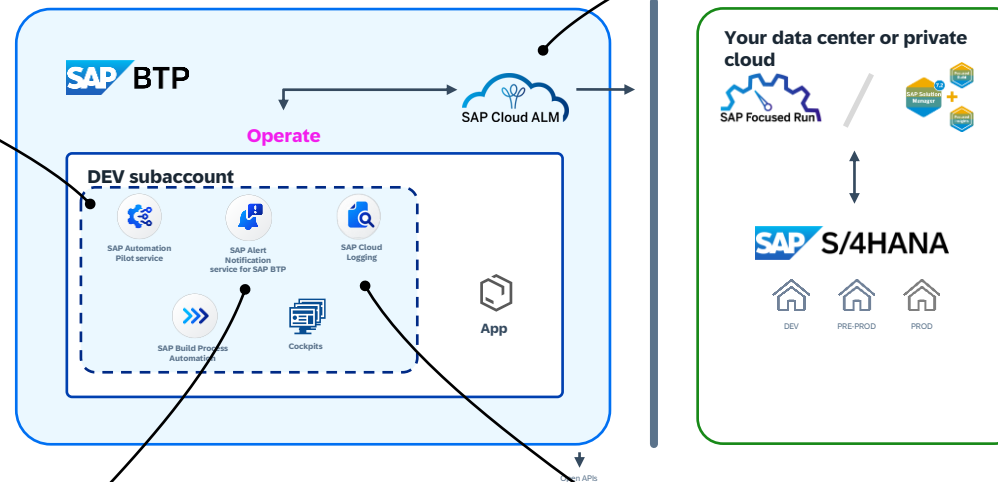


SAP Automation Pilot

Additional commands (such as for automated setup of SAP BTP accounts and for SAP AI Core), improved scheduling, update of SAP HANA Cloud ([tutorial](#)), beta version of GenAI-based command generation

SAP Cloud ALM

Defined as SAP BTP's central operations platform ([interview](#))



SAP Alert Notification service for SAP BTP

Delivery of events from SAP Job Scheduling service ([blog post](#)) and from Cloud Foundry

SAP Cloud Logging

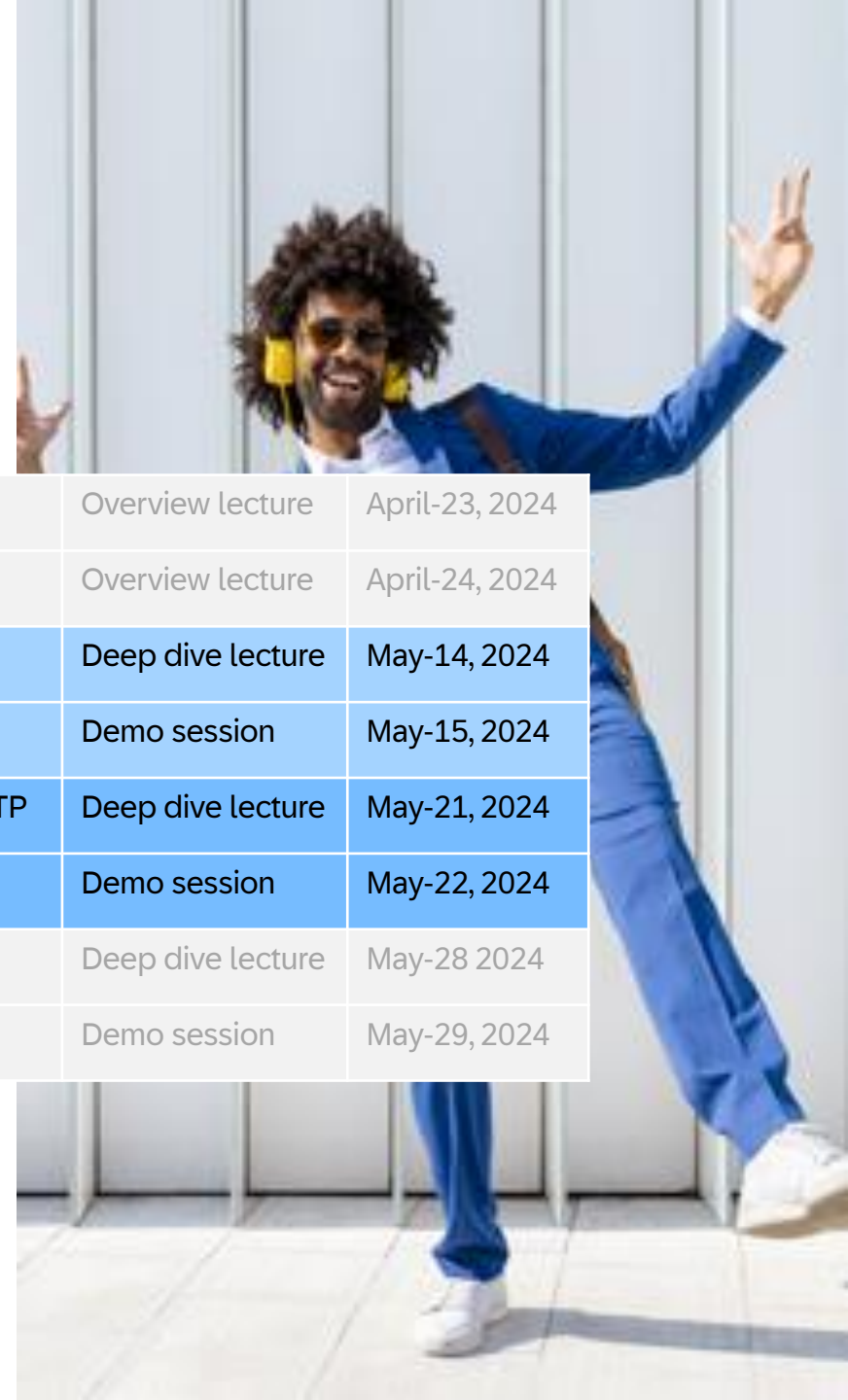
Release of successor of SAP App Logging service – store, visualize, and analyze app logs, metrics, and traces from Cloud Foundry, Kyma, Kubernetes, Neo ([SAP Discovery Center](#))

SAP BTP DevOps and Observability in Action

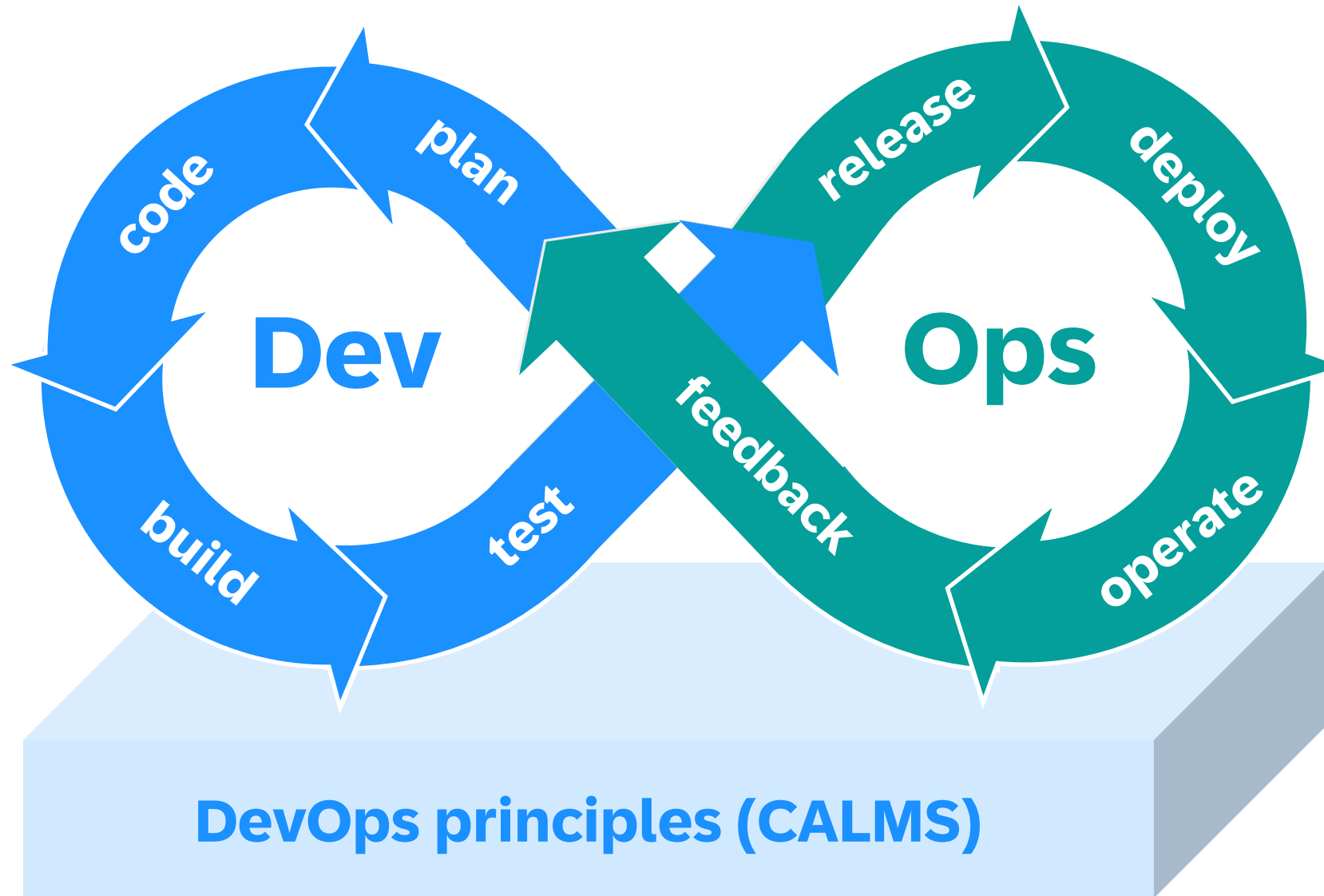
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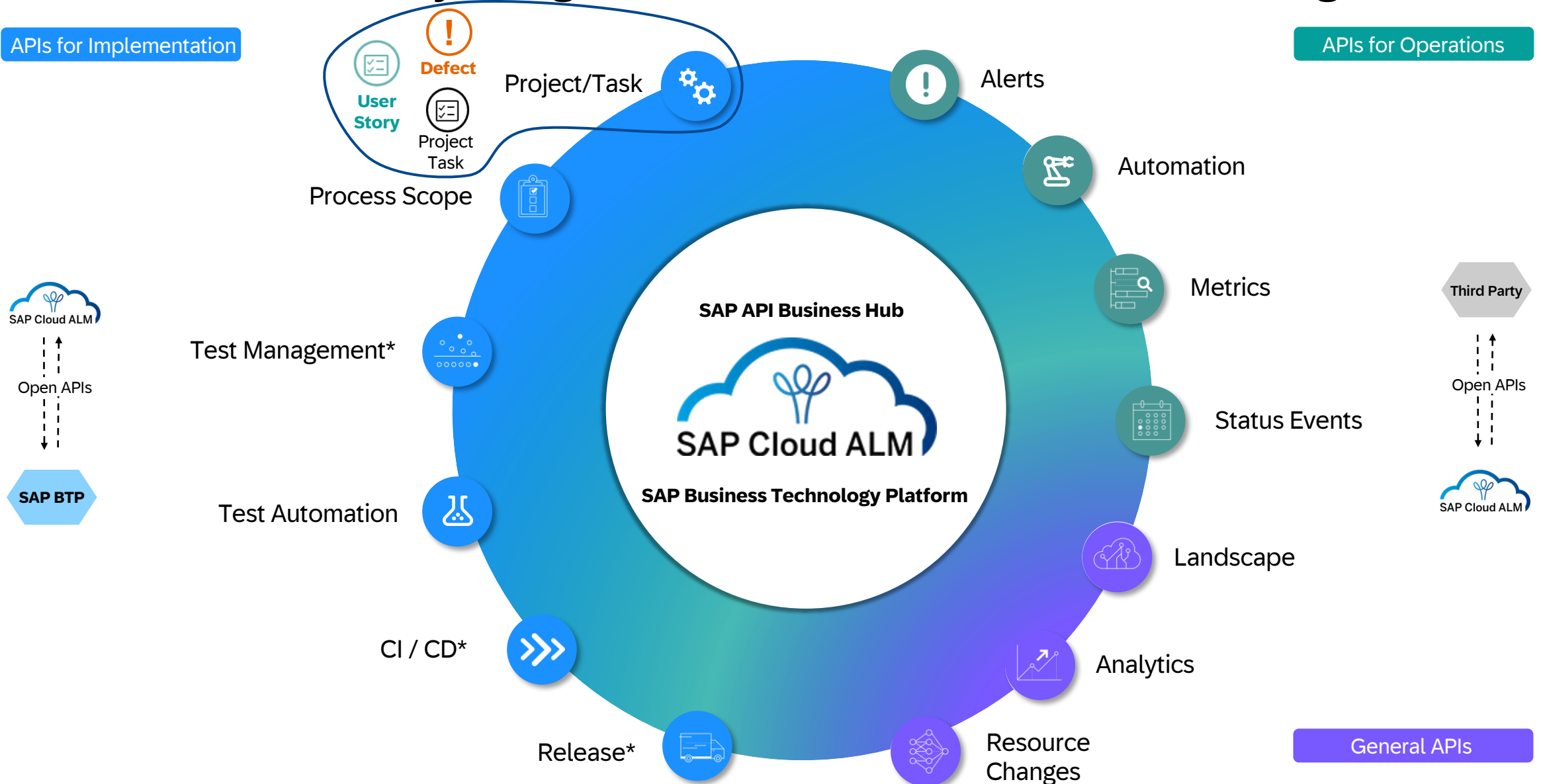
The DevOps continuum



Feedback: Extensibility Using APIs for SAP Cloud ALM – APIs Catalog

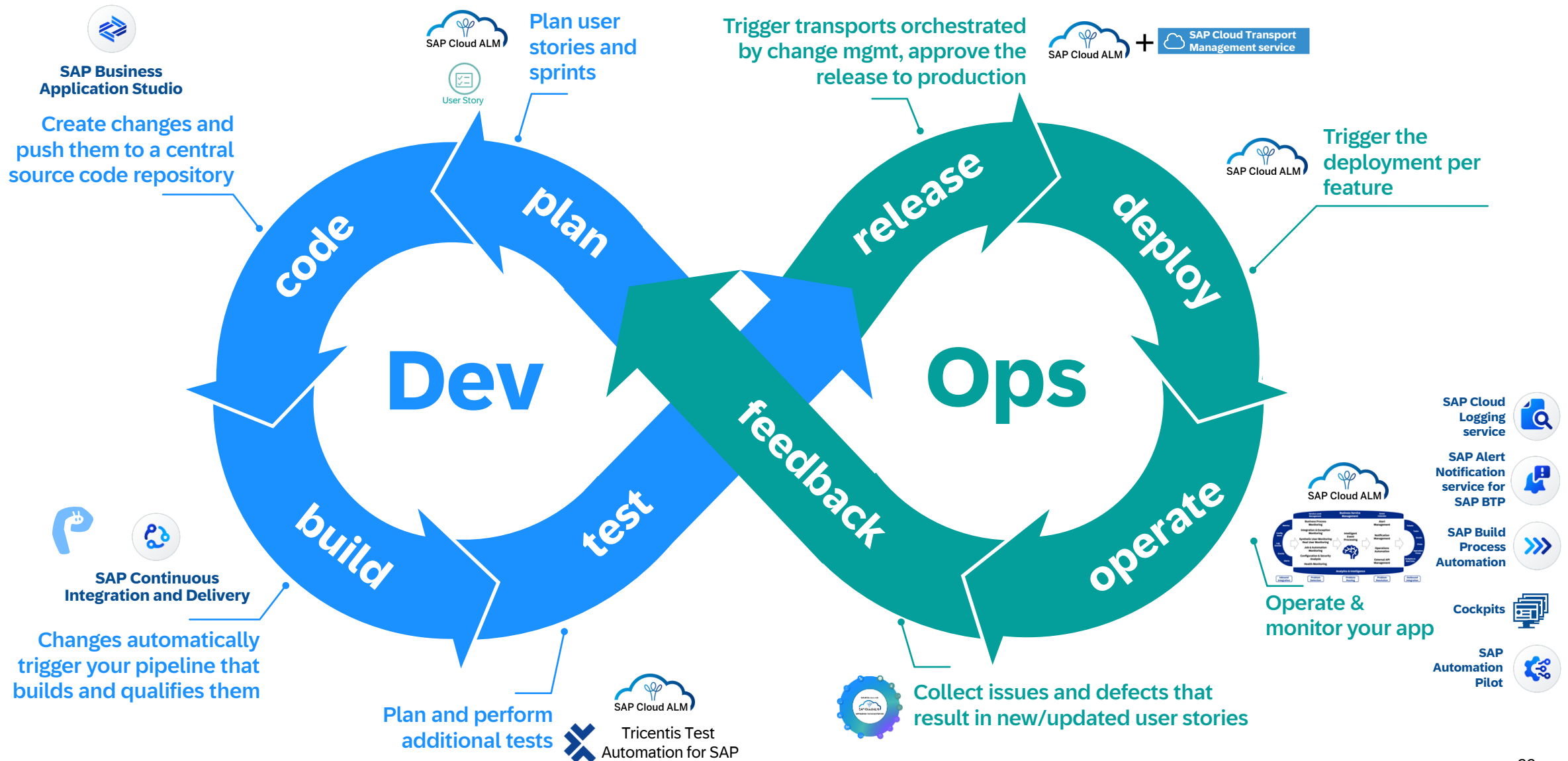
APIs for Implementation

APIs for Operations



Summary

Offering along the DevOps continuum



Learn more

- Link to Webcast series: [SAP BTP DevOps and Observability in Action](#)
- [SAP Cloud ALM for Implementation](#)
- [SAP Cloud ALM for Operations](#)
- [REST API | SAP Cloud ALM | SAP Business Accelerator Hub](#)
- [DevOps SAP Community page](#)
- [SAP Help Portal page about DevOps with SAP BTP](#)
- SAP Learning Journey [Discovering DevOps with SAP BTP](#)
- Recordings from SAP TechEd 2023:
 - [AD104v – Practical DevOps Approaches and Best Practices for CI](#)
 - [XP109v – Operations of SAP BTP with SAP Cloud ALM](#)

Thank you.

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