The background image shows a busy conference environment. In the foreground, a man and a woman are engaged in a conversation. The man is wearing a dark jacket and a lanyard with a badge. The woman has blonde hair and is also wearing a lanyard. In the background, there are other people, a large presentation screen displaying text about 'DevOps & Test Automation', and a sign that says 'RIGHT DATA, RIGHT PLACE, RIGHT TIME'. The entire image is overlaid with a blue gradient.

# Navigating SAP's Suite Of Tools For Seamless SAP S/4HANA Transition

**Tim Steuer, SAP SE**

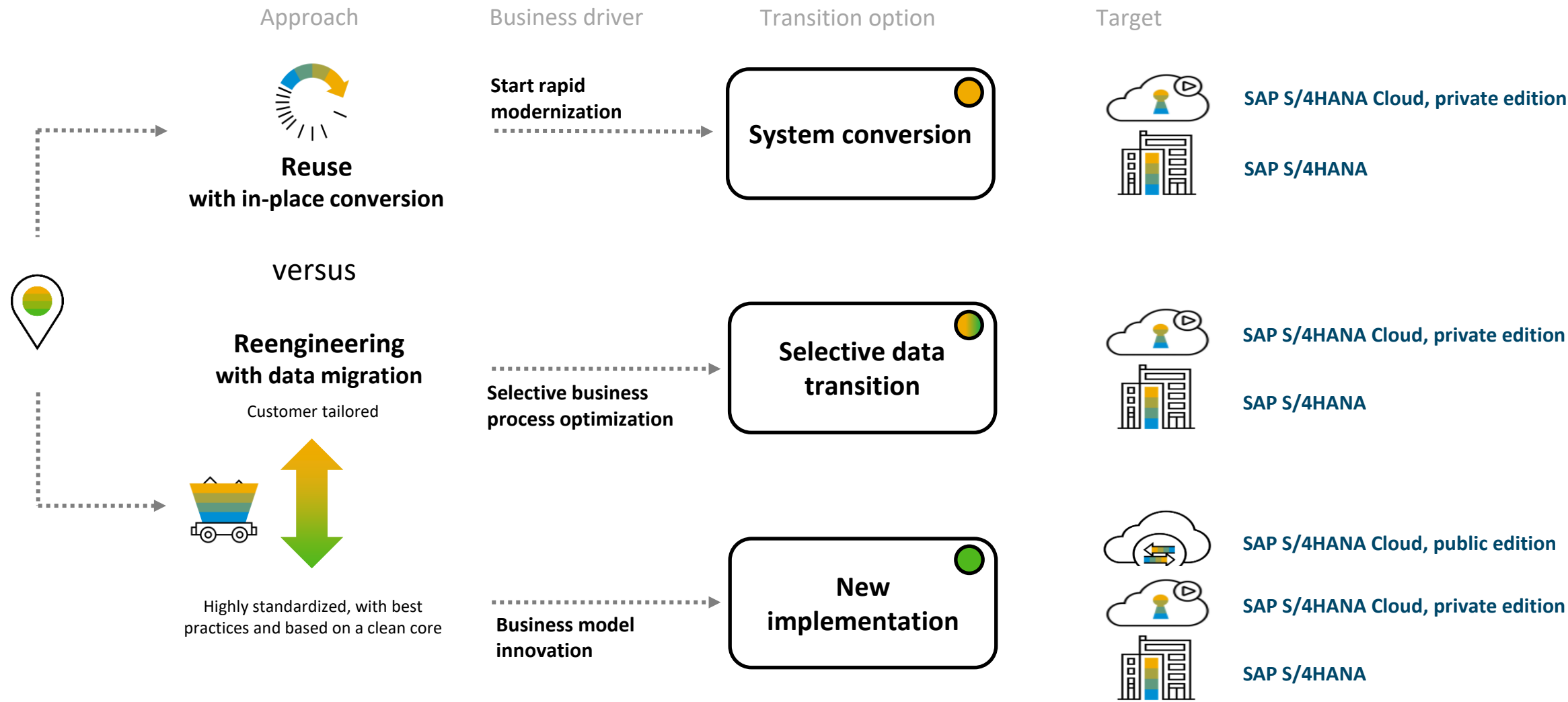


**2023**

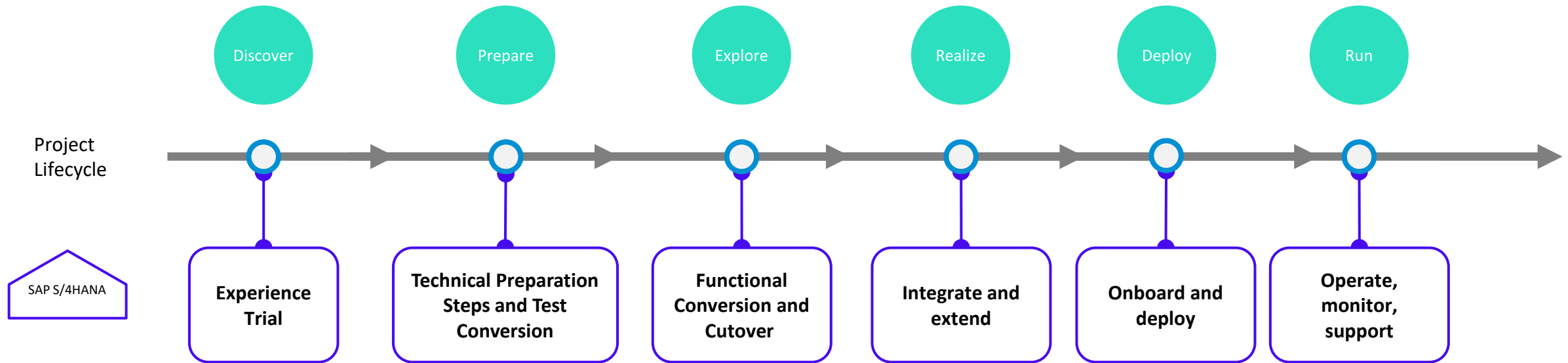
# Agenda

- Ways to SAP S/4HANA
- How SAP supports customers in their journey
  - Methodology
  - Tools
  - Services
- More Information

# Transition path to SAP S/4HANA



# Transition to S/4 – Following the methodology of SAP Activate



Comprehensive guidance covering the [transition strategies for deployment of SAP S/4HANA](#) – new implementation, [system conversion](#), and selective data transition covered with prescriptive tasks, breakdown by workstreams and supported with rich accelerators.

# Discover



## SAP Activate Methodology

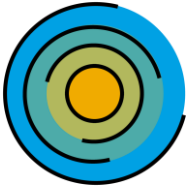
- agile and modular approach promoting flexibility
- follows structured phases
- provides access to industry-specific best practices

## SAP Readiness Check

- evaluates your current SAP ERP system to determine readiness for upgrades
- provides critical insights into potential issues to better plan your upcoming project

## Cloud Integration Automation Service

- simplifies the integration of SAP and non-SAP applications
- offers prebuilt integration content
- includes automation capabilities for design, deploy and monitor of integrations



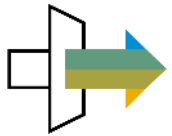
**Innovation as a Service is how your business deploys new capabilities, when and how you choose, to build a sustained competitive advantage**

Launch quickly and efficiently,  
standardized for integration

Self-service to expand capabilities when,  
where, and how you choose

## Business-Driven Innovation with SAP Activate

Self-service configuration through a clear deployment methodology of solution-specific practices, in a standardized environment



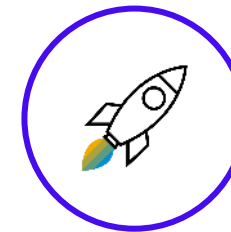
Business Processes  
Delivered  
Ready to Run



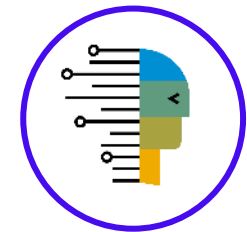
Clear Methodology for  
Adoption and Extensibility



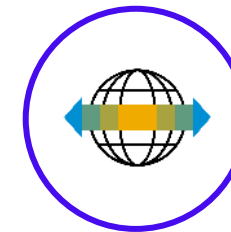
Apps for Adoption  
and Extensibility



Speed of Innovation



Greater Productivity

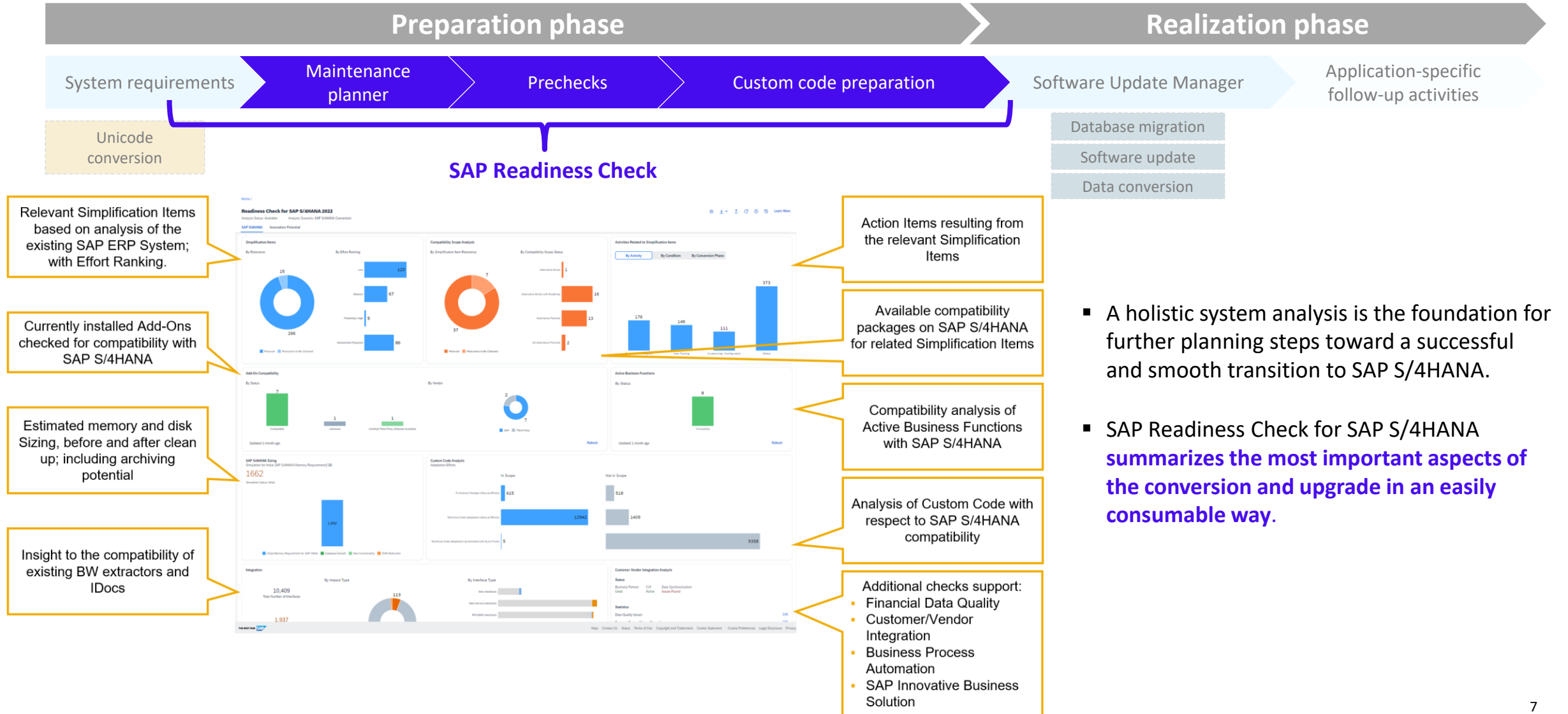


Growth & Scalability



Business Impact

# SAP Readiness Check for SAP S/4HANA



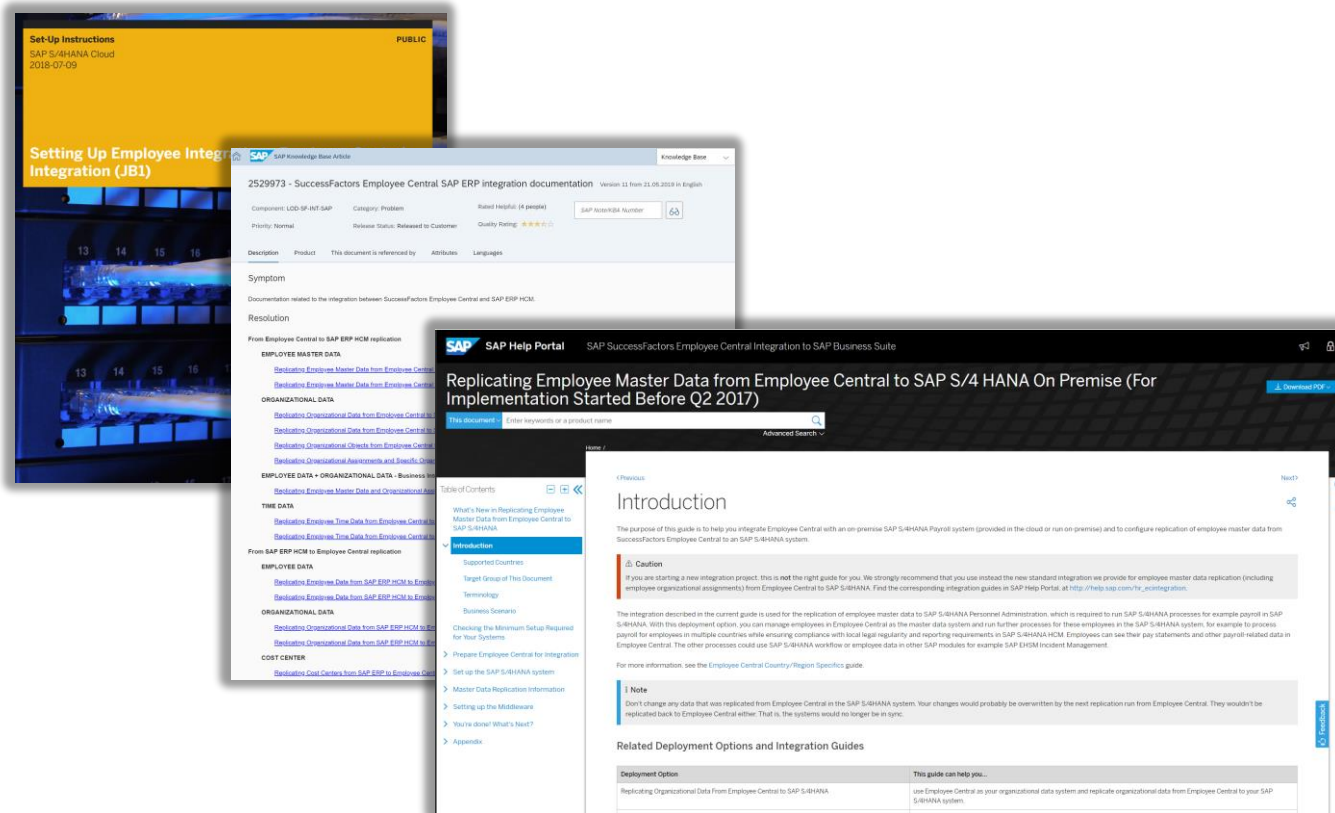
- A holistic system analysis is the foundation for further planning steps toward a successful and smooth transition to SAP S/4HANA.
- SAP Readiness Check for SAP S/4HANA summarizes the most important aspects of the conversion and upgrade in an easily consumable way.



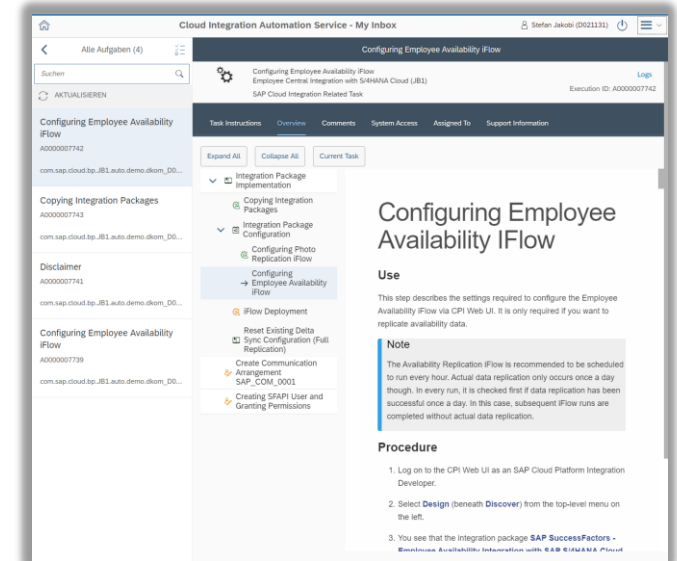
# Cloud Integration Automation Service – Short

**Cloud Integration Automation Service** is a framework that provides task-based configuration procedures with automation

Instead of PDFs, Notes, Help Pages...:



You get **one** Workflow...:



... with role based tasks and system landscape information including automation



# Discover



## SAP Activate Methodology

- agile and modular approach promoting flexibility
- follows structured phases
- provides access to industry-specific best practices

## SAP Readiness Check

- evaluates your current SAP ERP system to determine readiness for upgrades
- provides critical insights into potential issues to better plan your upcoming project

## Cloud Integration Automation Service

- simplifies the integration of SAP and non-SAP applications
- offers prebuilt integration content
- includes automation capabilities for design, deploy and monitor of integrations

# Prepare



## SAP Cloud ALM

- provides end-to-end ALM capabilities spanning project management, solution implementation, operation and optimization
- acts as central platform in your conversion project by offering integration to other tools

# SAP Cloud ALM – facts and figures

## License and cost

Included in SAP Enterprise Support and Subscription

- Maintenance and operations by SAP
- Included memory: 8 GB
- API usage: 8 GB outbound data transfer per month



## Supported Solutions

Designed for cloud and hybrid customers

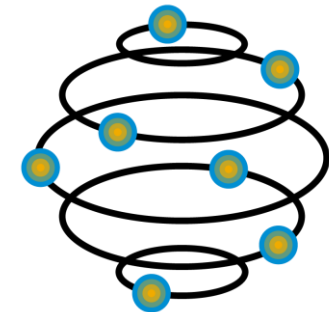
- Cloud solutions from SAP
- On-premise ABAP solutions (SAP S/4HANA, SAP Business Suite, SAP BW)
- PI/PO integration monitoring
- Non-SAP solutions



## Delivery and update model

Cloud-native

- Customer-owned SaaS
- Available in 15 minutes
- Daily integrated delivery
- Bi-weekly feature release



# SAP Cloud ALM – how does it help you?



# Prepare



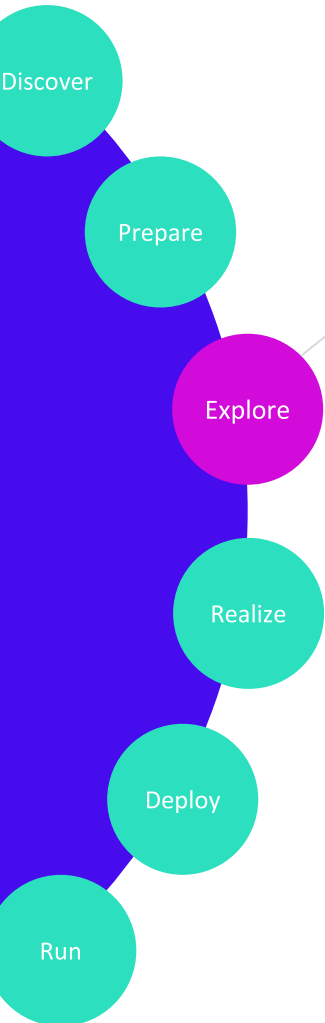
## SAP Cloud ALM

- provides end-to-end ALM capabilities spanning project management, solution implementation, operation and optimization
- acts as central platform in your conversion project by offering integration to other tools

## Activities in SAP Cloud ALM in this phase:

- request access to SAP Cloud ALM tenant (available in 15minutes)
- onboard users to SAP Cloud ALM
- upload SAP Readiness Check to own tenant

# Explore



## Custom Code Migration App

- helps to identify and optimize custom code objects that might be impacted by system upgrades
- ensures compatibility with SAP's latest product versions
- identifies unused or redundant code

## SAP Readiness Check in SAP Cloud ALM

- activate integration between SAP Readiness Check and SAP Cloud ALM
- create follow-up items to distribute activities identified by SAP Readiness Check
- trace progress of Readiness Check items

## Custom Code Migration App – Details

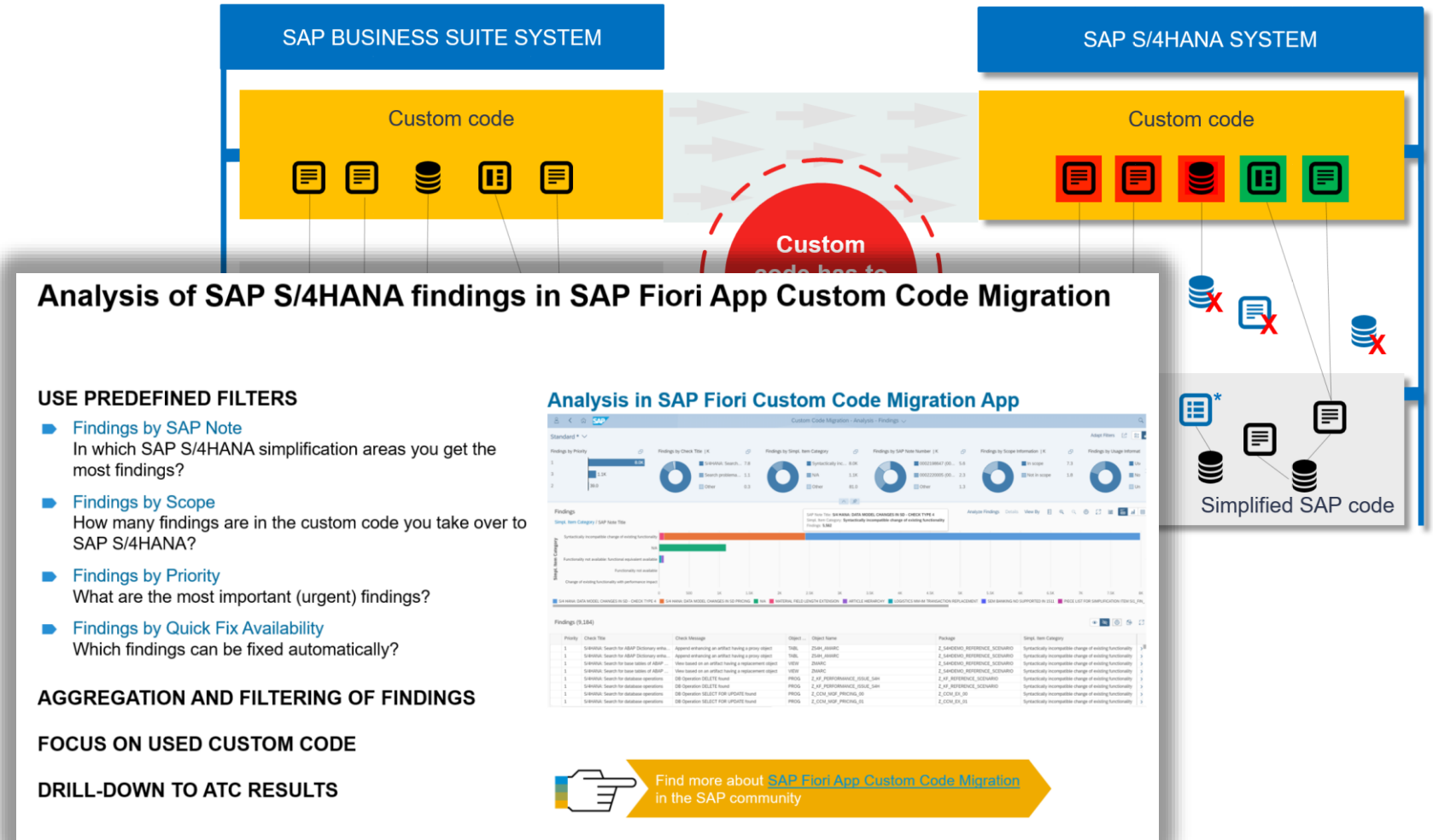
## Challenge for custom code after SAP S/4HANA system conversion

## SAP S/4HANA is a *new* product line

**The classical SAP Business Suite & SAP ERP are separate product lines and will still be available**

**System conversion including custom code from existing SAP Business Suite or SAP ERP system is possible**

- Analysis of custom code for SAP S/4HANA or SAP BTP readiness
- Obsolete custom code removal based on usage data
- Simplified custom code remediation
- Identification of custom code candidates for back-to-standard and redesign activities
- Evaluation of custom code for semi-automated adaptation (with Quick Fixes in ADT in Eclipse)

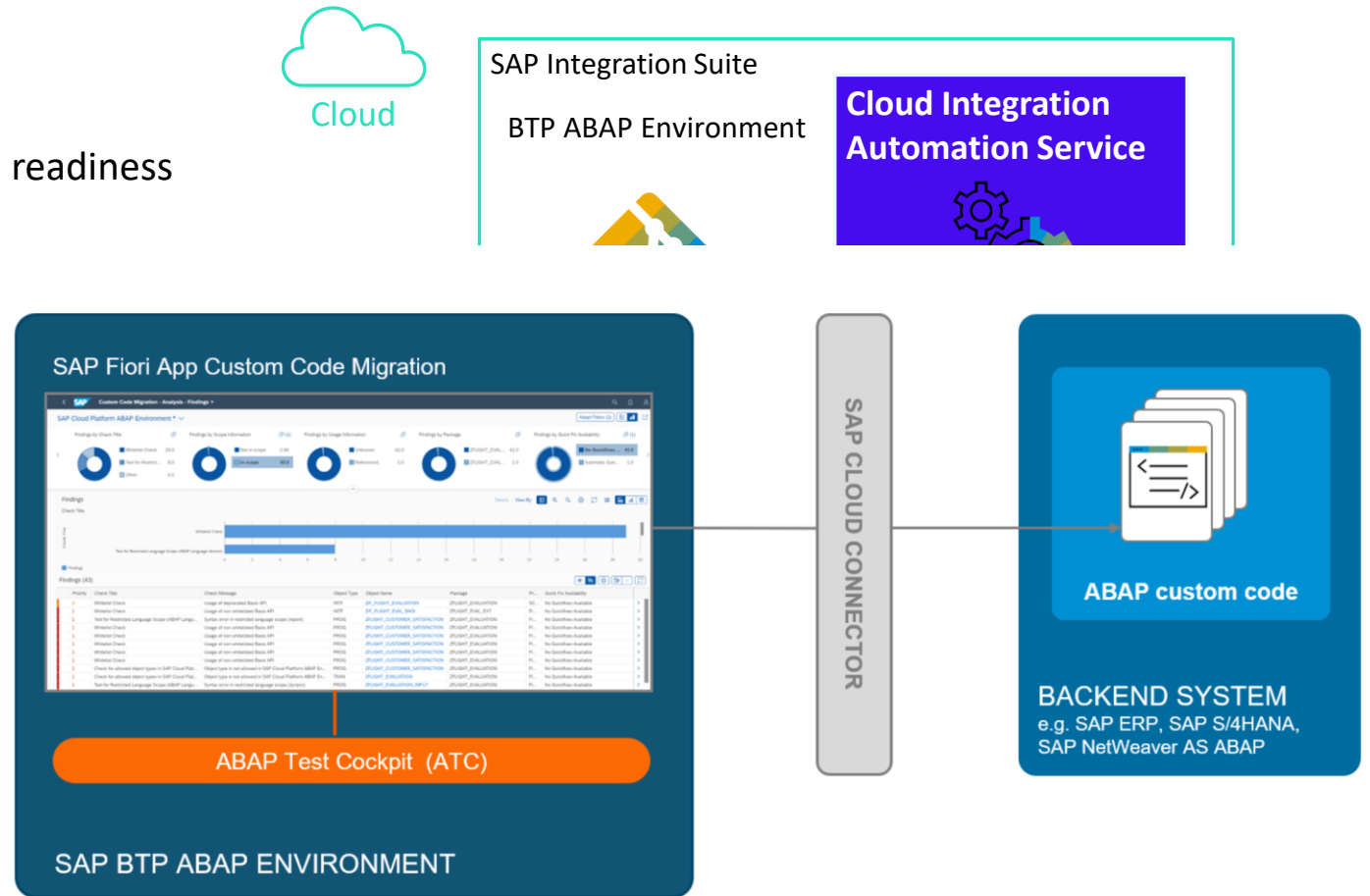




# Configuration of the Custom Code Migration App

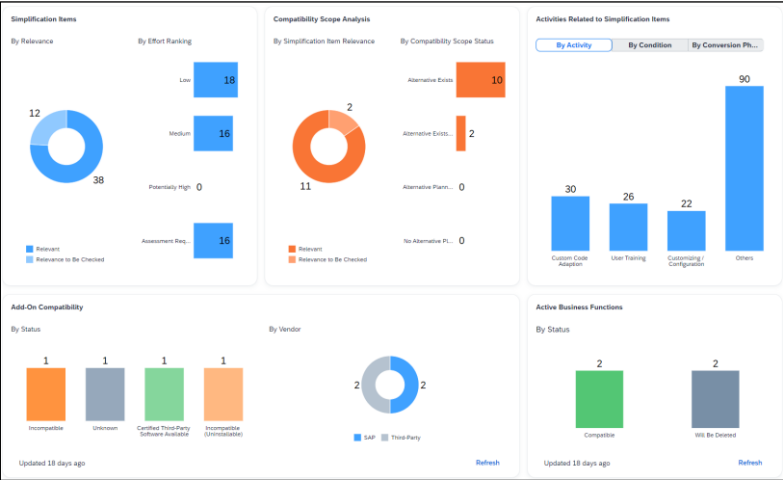
## Scenario / Configuration

- Configuration to use the Custom Code Migration App
- Analysis of custom code for SAP S/4HANA or SAP BTP readiness
- 3 Systems involved
  - SAP Business Suite or SAP ERP System
  - SAP Cloud Connector
  - SAP Business Technology Platform



# New integration: SAP Readiness Check with SAP Cloud ALM

## SAP Readiness Check in SAP Cloud ALM customer tenant



individual selection of:

- Simplification Items
- Compatibility Packages
- Custom Code Topics
- Activities
- Active Business Functions
- Add-Ons
- ...

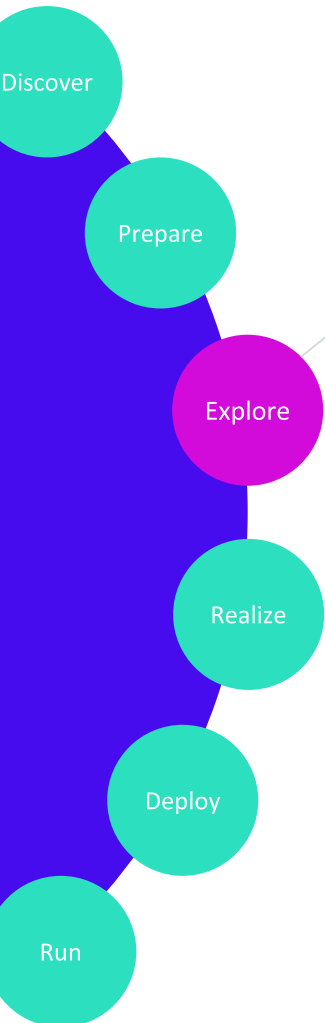
creation/assignment:

- Requirements
- User Stories
- Features
- Issue and Action Items

| Requirement | User Story | Feature |
|-------------|------------|---------|
|             |            |         |
|             |            |         |
|             |            |         |
|             |            |         |
|             |            |         |

activation of integration

# Explore



## Custom Code Migration App

- helps to identify and optimize custom code objects that might be impacted by system upgrades
- ensures compatibility with SAP's latest product versions
- identifies unused or redundant code

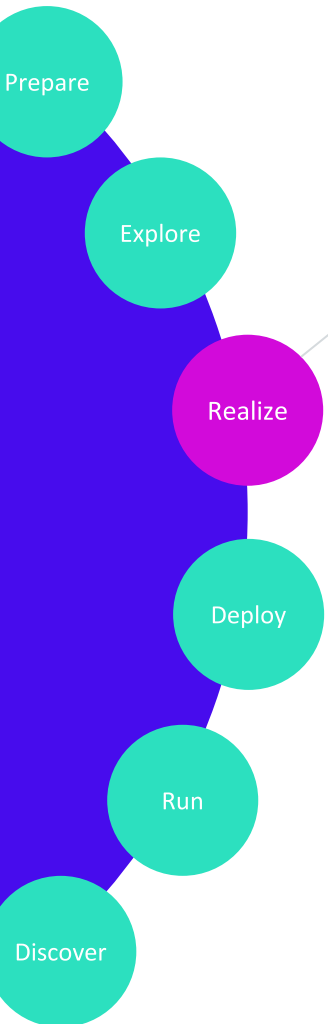
## SAP Readiness Check in SAP Cloud ALM

- activate integration between SAP Readiness Check and SAP Cloud ALM
- create follow-up items to distribute activities identified by SAP Readiness Check
- trace progress of Readiness Check items

## Activities in SAP Cloud ALM

- if required: perform Fit-to-Standard Workshops and document results
- prepare Test Planning
- define Release and Sprint Planning
- perform Backlog Planning

# Realize



## Data Transition Validation

- assures data quality by assessing accuracy, completeness and consistency
- predefined validation rules and checks are applied to migrated data
- mitigates risk by identifying data quality issues early in the migration process

# Data Transition Validation (DTV) Tool

**Data Transition Validation** is a SAP's business **data validation tool** to **automatically** compare and check the **quality** of the **migrated data** and present the comparison result

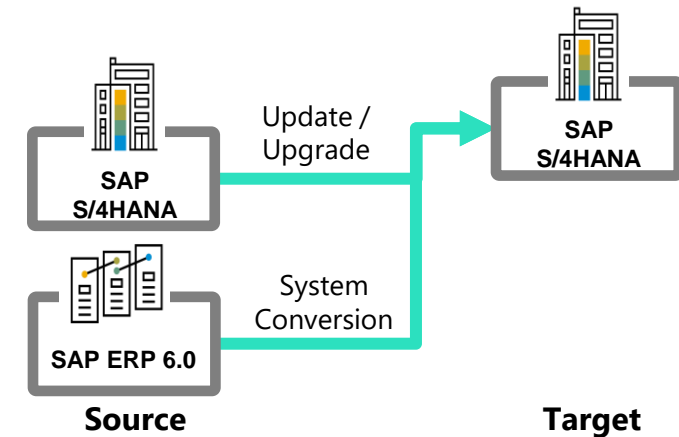
Scope:

- Validation during **system conversion** or SAP S/4HANA **Upgrade/Updates**
- Using predefined, **pre delivered** validation content
- Business reports as medium of comparison

Benefits:

- Reliable** mechanism to validate huge data
- SAP **recommended** pre delivered content
- Downtime reduction** by eliminating manual checks
- Intuitive UI** – End user can perform all operation

The tool is general available (part of the standard license), and delivered as part of SAP BASIS software component.



DTV result snapshot

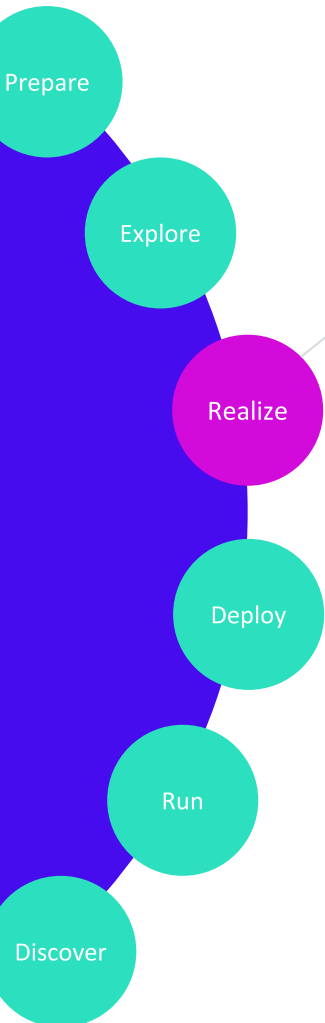
| Difference ID | System ID | Assignment    | Posting Date | Document Type | Document Number | Document Date | Business Area | Line Item | Posting Key | Negative posting | Dunning Level | Payment |
|---------------|-----------|---------------|--------------|---------------|-----------------|---------------|---------------|-----------|-------------|------------------|---------------|---------|
| 0             | SOURCE    | 2000000000011 | 20160323     | DA            | 1600000000      | 20160323      | 0001          | 003       | 11          | 0                |               |         |
| 0             | TARGET    | 2000000000011 | 20160323     | DA            | 1600000000      | 20160323      | 0001          | 003       | 11          | 0                |               |         |
| 0             | SOURCE    | 2000000000012 | 20160323     | DA            | 1600000001      | 20160323      | 0001          | 003       | 11          | 0                |               |         |
| 0             | TARGET    | 2000000000012 | 20160323     | DA            | 1600000001      | 20160323      | 0001          | 003       | 11          | 0                |               |         |

RFITEMGL : GL Line Item display : Business Validation results

| Company Code | G/L Account | Document No | Posting Key | Amount in local currency | Company Code | G/L Account | Document No | Posting Key | Amount in local currency |
|--------------|-------------|-------------|-------------|--------------------------|--------------|-------------|-------------|-------------|--------------------------|
| 2000         | 111000      | 100000685   | 40          | 9,026,41- USD            | 2000         | 111000      | 100000685   | 50          | 7,026,41- USD            |

Source: ECC Target: SAP S/4HANA

# Realize



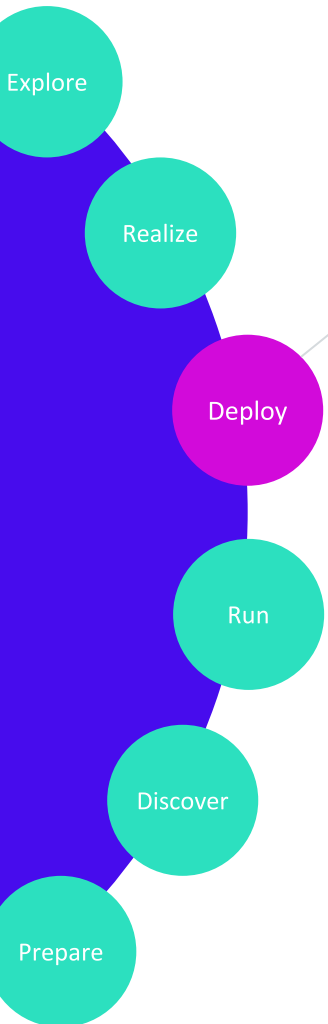
## Data Transition Validation

- assures data quality by assessing accuracy, completeness and consistency
- predefined validation rules and checks are applied to migrated data
- mitigates risk by identifying data quality issues early in the migration process

## Activities in SAP Cloud ALM in this phase

- perform configuration
- execute and document tests
- prepare cutover
- implement operations support process and tools

# Deploy

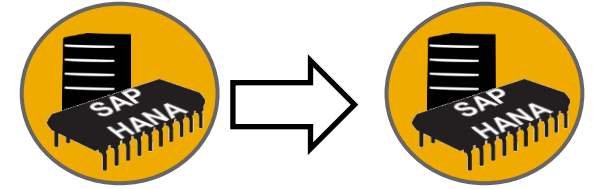


## Software Update Manager with Database Migration Option

- central tool for updating and upgrading SAP software components
- designed to minimize system downtimes
- offers features for technical conversion, data migration and adjustments



# New: Homogeneous option for DMO



**SUM 2.0 SP 17** now offers a **homogeneous** database migration option:

- For SAP HANA DB to SAP HANA DB (no plans to extend this to other database types)
- For target product SAP S/4HANA

**Scenario:** Combine conversion & transition to hyperscaler for source SAP ERP on SAP HANA

- „**DMO with system move**“ now supports this scenario

**Downtime-optimized approaches** (doDMO and downtime-optimized Conversion)

- Those approaches are supported with SUM 2.0 SP 18 for homogeneous DMO

**Pure migration** on SAP ERP is not supported for homogeneous DMO approach:

- Keeping SAP ERP 6.0 level is not supported with homogeneous DMO
- With or without move to hyperscaler
- Example: SAP ERP 6.0 on SAP HANA => **SAP ERP 6.0** on SAP HANA not supported

This is the state of planning that may be changed by SAP without notice - check the respective SAP Notes on DMO

# DMOVE2S4: “DMO move to SAP S/4HANA (on hyperscaler)”

Alternative to “DMO  
with System Move”

- Requires low latency and good bandwidth
- Piloted until now (“*DMO to Azure*”, “*DMO conversion to hyperscaler*”)

3296427 - Database Migration Option (DMO) of SUM 2.0 SP17

Description   Software Components   This document refers to   Attachments   Attributes   Languages

## Symptom

1. [Standard: System update together with database migration](#)
2. [Optional: DMO with System Move](#)

You want to run an update with database migration including a move of the primary application server from source to target system.

For more information, see in this SAP Note the section “I: Important General Information” -> “c) DMO with System Move: Requirements and Restrictions”. See also the DMO Guide for target database SAP HANA or SAP ASE, section “2. Planning” -> “Performing DMO with System Move”.

3. [Optional: Homogeneous database migration](#)
4. [Optional: Database migration without system update](#)
5. [Optional: DMO move to SAP S/4HANA \(on hyperscaler\)](#)

As of SUM 2.0 SP17, the approach “DMO move to SAP S/4HANA (on hyperscaler)” (DMOVE2S4) is available. It allows you to perform a conversion and a transition to SAP S/4HANA on hyperscaler for your SAP ECC in one step.

For more information, see in this SAP Note the section “I: Important General Information” -> “g) DMO Move to SAP S/4HANA (on hyperscaler)”. See also the DMO Guide for target database SAP HANA, section “2. Planning” -> “DMO Move to SAP S/4HANA (on hyperscaler)”.

# DMOVE2S4 – Details

## 1. Install AAS in target

In the target environment, in which the target SAP HANA DB is installed, you install an Additional Application Server (AAS) which belongs to the source SAP ERP 6.0.

## 2. Extract and start SUM on that AAS

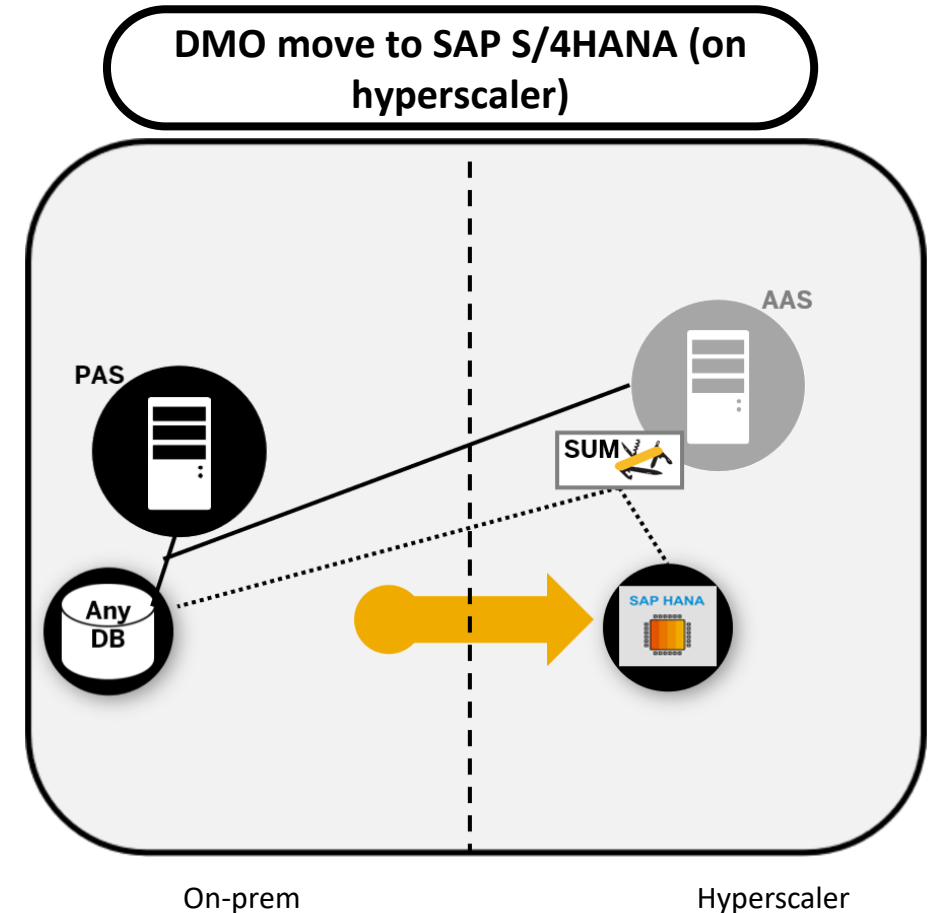
You start SUM for the conversion on that AAS host in the target environment.

## 3. You confirm the "ACSC instance move" offered by SUM

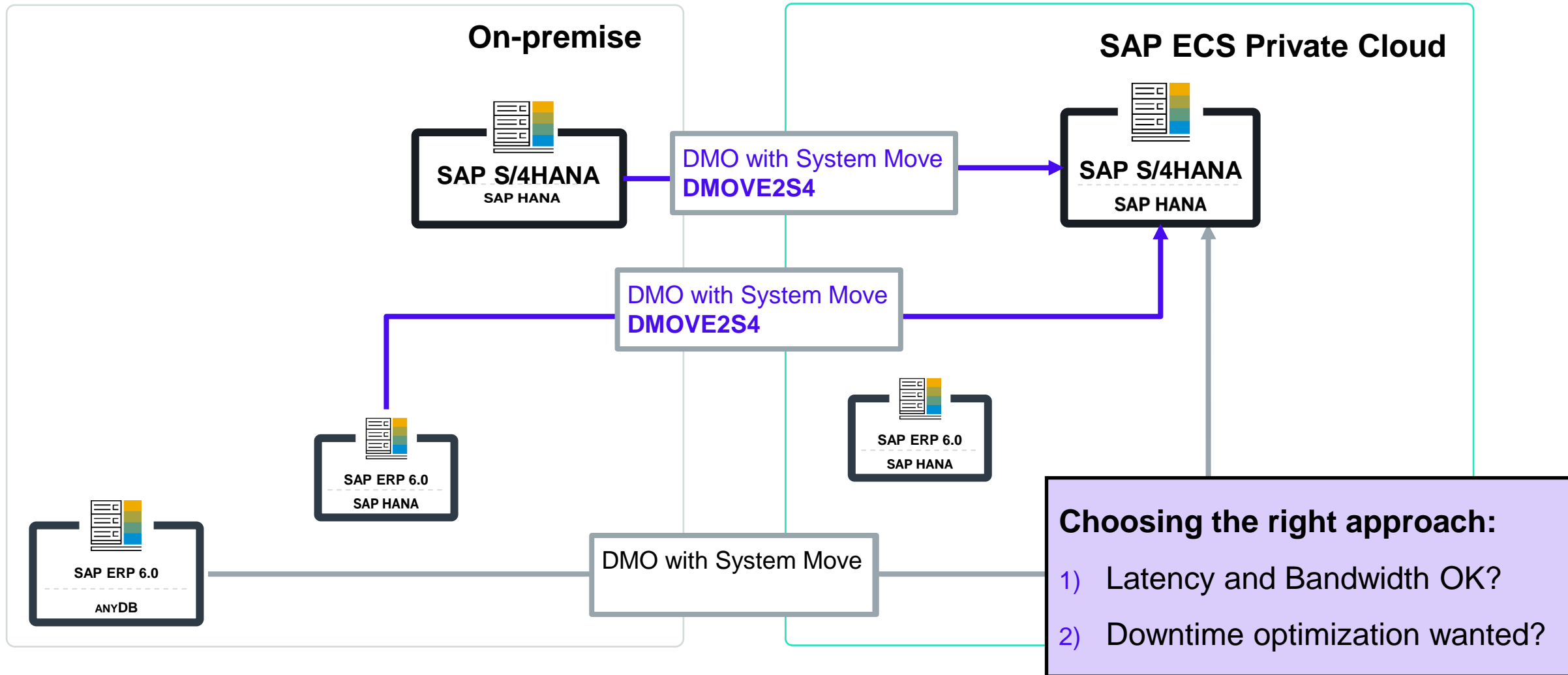
As SUM detects that it is not running on the Primary Application Server (PAS) host, it offers the ASCS instance move. This will install the ABAP central services on the AAS in the target, and the previous PAS will not be started again after downtime.

## 4. Post activities

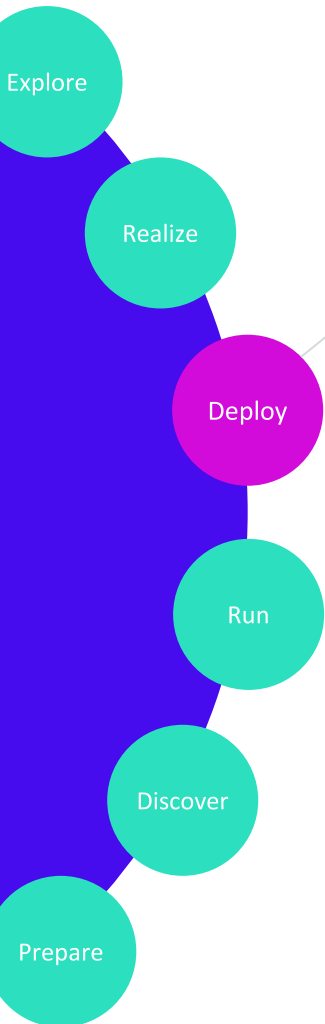
Some post activities are required which are described in the DMO Guide, like moving the directories sapmnt and trans to the hyperscaler.



# DMOVE2S4 and DMO with System Move – new paths in purple



# Deploy



## Software Update Manager with Database Migration Option

- central tool for updating and upgrading SAP software components
- designed to minimize system downtimes
- offers features for technical conversion, data migration and adjustments

## Activities in SAP Cloud ALM in this phase

- Trigger deployment of transport requests to PRD

# Run



## Activities in SAP Cloud ALM in this phase

- perform efficient monitoring with the help of SAP Cloud ALM capabilities
- identify opportunities for process improvement and optimization

## Summary – what you should keep in mind

- SAP provides several tools that support you in all phases of your system conversion
- you can combine the conversion of your on-premise system with the move to a hyperscaler in one step
- follow the SAP Activate methodology to get guided through the whole project
- use SAP Cloud ALM for project management and benefit from the integration to other tools
- start your journey to SAP S/4HANA *now*



# Where to find more information?

System Conversion to SAP S/4HANA

[Mapping your journey – Guide](#)

[SAP Readiness Check](#)

[Custom Code Migration App](#)

Data Transition Validation

[General description](#)

[Introduction to DTV](#)

[SAP central DTV note](#)

[SAP Help Portal](#)

Cloud Integration Automation Service

[CIAS on Cloud Foundry](#)

[Blog with Video](#)

SUM, DMO and DMOVE2S4

[DMOVE2S4 introduction](#)

[New with SUM 2.0 SP17](#)

[The evolution of DMO](#) (incl. the latest updates)

SAP Cloud ALM

[Main Blog Post](#)

---

Tim Steuer: [Tim.Steuer@sap.com](mailto:Tim.Steuer@sap.com)

Please remember to complete  
your session evaluation.