Integrating SAP S/4HANA Cloud from Digital Core to Edge *– Made Simple*

CAA123

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Speakers

Las Vegas
September 24–27, 2019

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Barcelona
October 8-10, 2019

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Bangalore
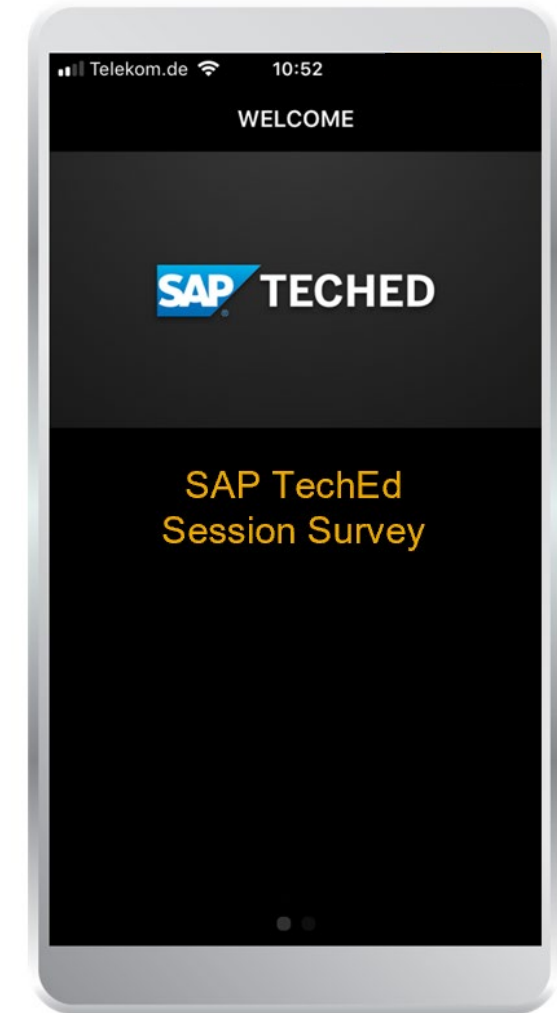November 13-15, 2019

Nidhi Choudhary

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Agenda

Value proposition

- Cross-application business scenarios extend, enhance and connect the digital Core

Intelligent Enterprise Suite

- High-level overview

Integration lifecycle

- Business process driven implementation content, bots and automation, runtime monitoring

Open integration

- Public APIs, business events, CDS views

Demo

- Third-party integration - Example

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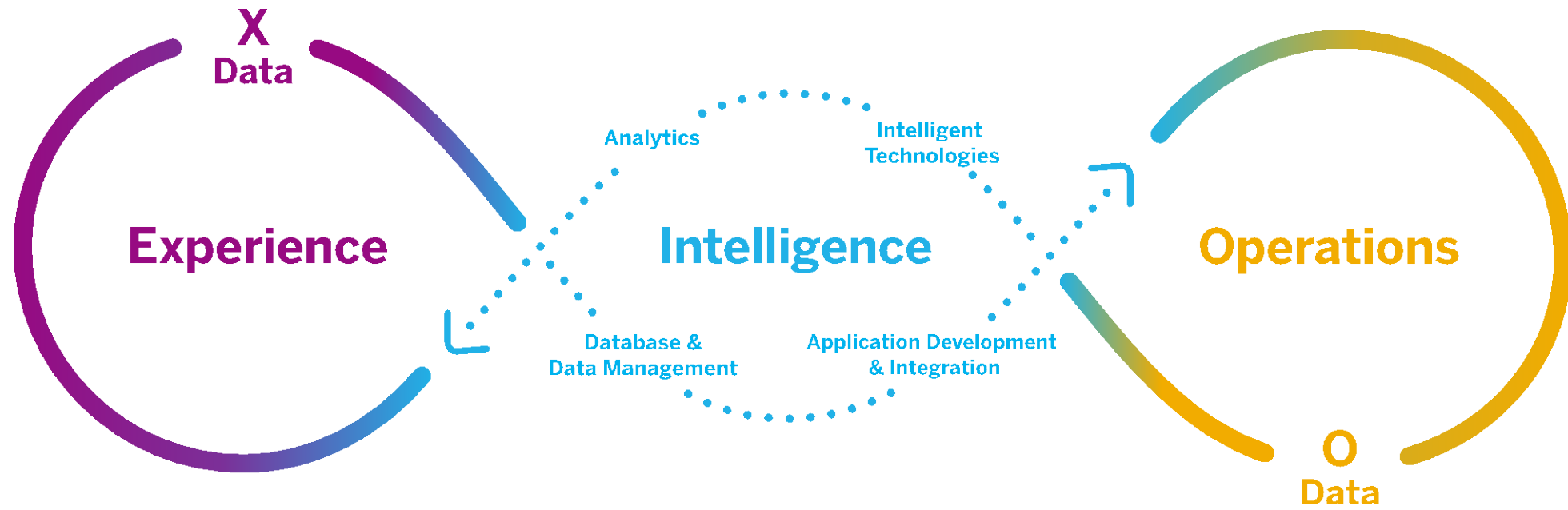
Open integration

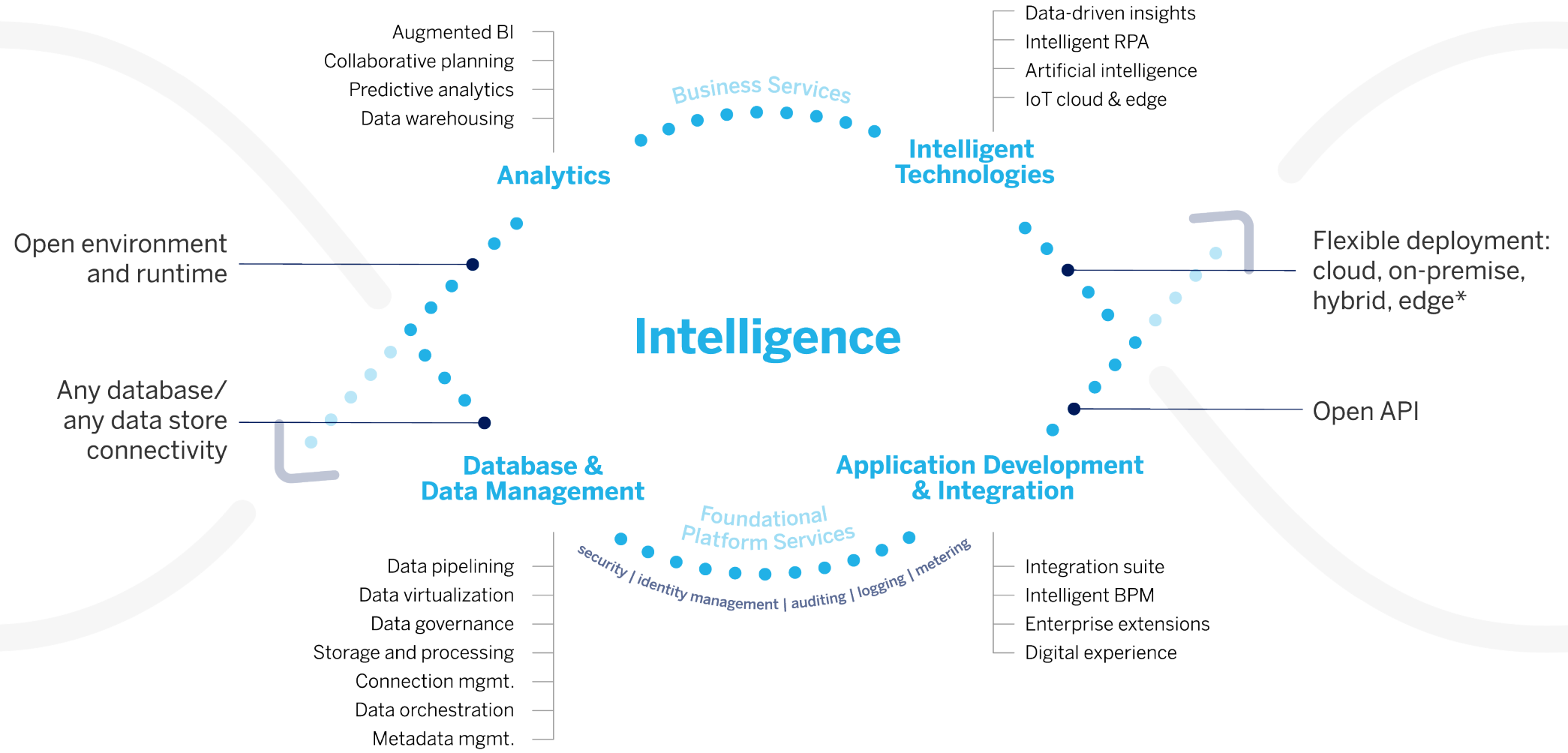- Public APIs, business events, CDS views

Demo

- Third-party integration - Example

Intelligent Enterprise

X
Data

Experience

Intelligence

Analytics

Intelligent
Technologies

Database &
Data Management

Application Development
& Integration

Operations

O
Data

Business Technology Platform

Augmented BI
Collaborative planning
Predictive analytics
Data warehousing

Data-driven insights
Intelligent RPA
Artificial intelligence
IoT cloud & edge

Business Services

Analytics

Intelligent Technologies

Open environment and runtime

Flexible deployment: cloud, on-premise, hybrid, edge*

Intelligence

Any database/ any data store connectivity

Open API

Database & Data Management

Application Development & Integration

Foundational Platform Services

security | identity management | auditing | logging | metering

Data pipelining
Data virtualization
Data governance
Storage and processing
Connection mgmt.
Data orchestration
Metadata mgmt.

Integration suite
Intelligent BPM
Enterprise extensions
Digital experience

*Services availability may change per deployment model and IaaS vendors

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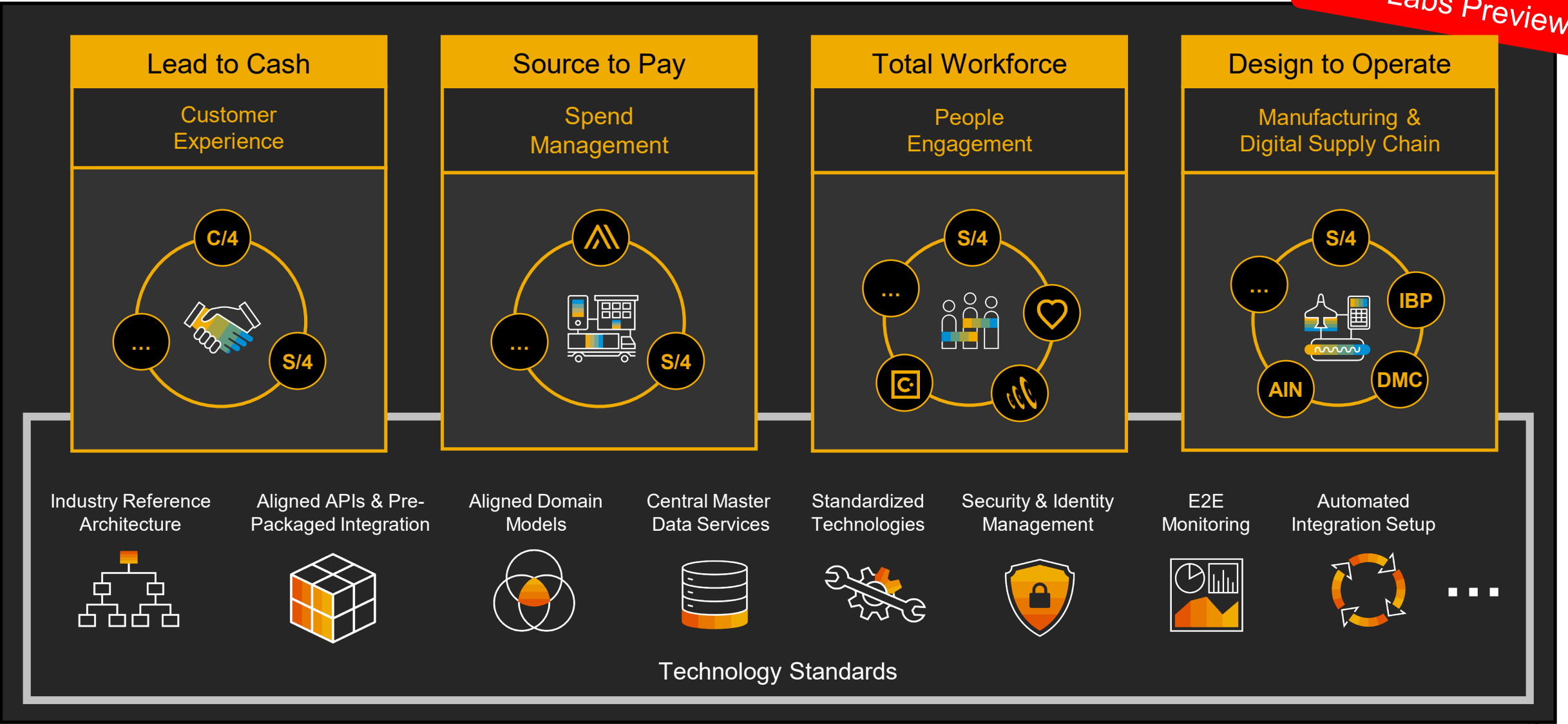
- Public APIs, business events, CDS views
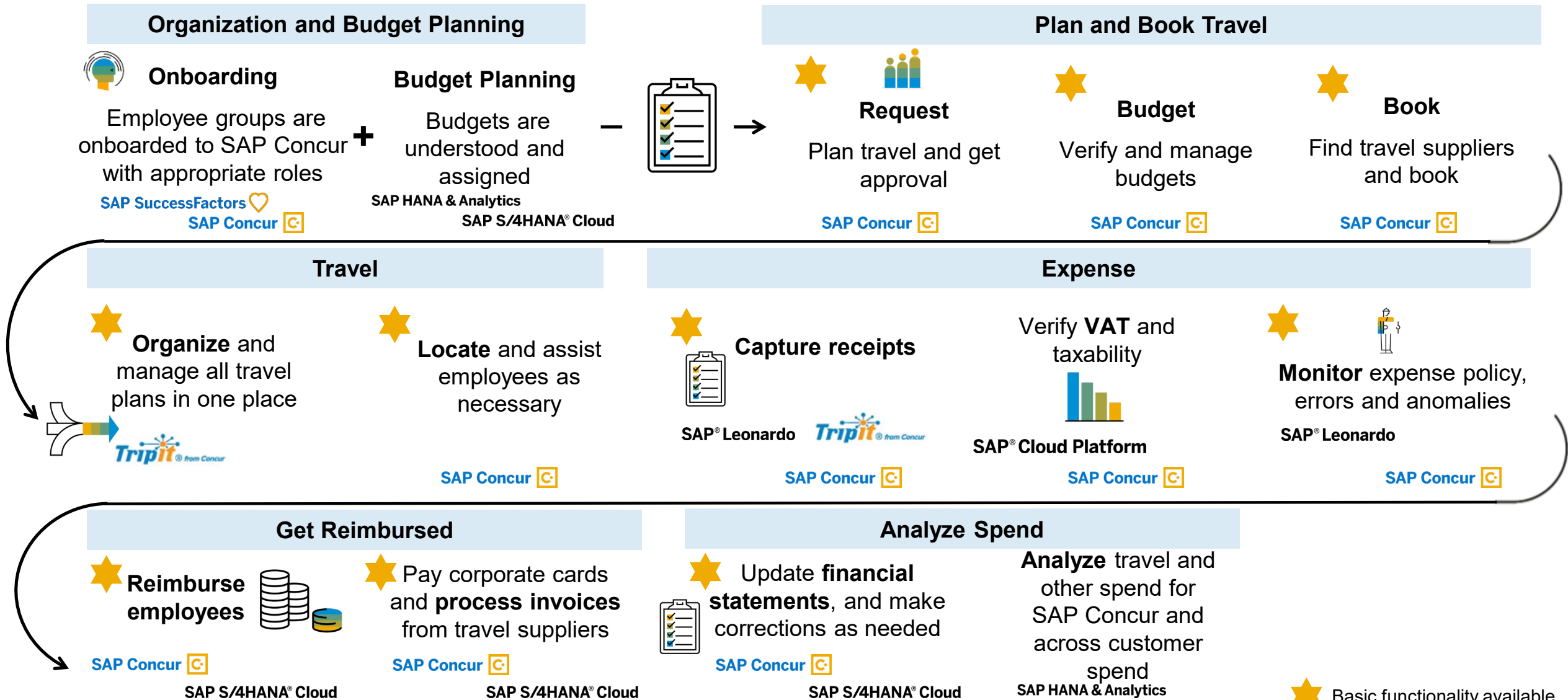
Demo

- Third-party integration - Example

SAP integration DNA for the Intelligent Suite

Consistent adoption of technology standards along key scenarios

SAP Labs Preview

Lead to Cash
Customer Experience

Source to Pay
Spend Management

Total Workforce
People Engagement

Design to Operate
Manufacturing & Digital Supply Chain

Industry Reference Architecture

Aligned APIs & Pre-Packaged Integration

Aligned Domain Models

Central Master Data Services

Standardized Technologies

Security & Identity Management

E2E Monitoring

Automated Integration Setup

Technology Standards

To-be process: Travel-to-Reimburse high level solution mapping

Organization and Budget Planning

Onboarding

Employee groups are onboarded to SAP Concur with appropriate roles

SAP SuccessFactors
SAP Concur

+

Budget Planning

Budgets are understood and assigned

SAP HANA & Analytics
SAP S/4HANA® Cloud

–

Plan and Book Travel

Request

Plan travel and get approval

SAP Concur

Budget

Verify and manage budgets

SAP Concur

Book

Find travel suppliers and book

SAP Concur

Travel

Organize and manage all travel plans in one place

Tripit® from Concur

SAP Concur

Locate and assist employees as necessary

SAP Concur

Expense

Capture receipts

SAP® Leonardo   **Tripit® from Concur**

SAP Concur

Verify **VAT** and taxability

SAP® Cloud Platform

SAP Concur

Monitor expense policy, errors and anomalies

SAP® Leonardo

SAP Concur

Get Reimbursed

Reimburse employees

SAP Concur
SAP S/4HANA® Cloud

Pay corporate cards and **process invoices** from travel suppliers

SAP Concur
SAP S/4HANA® Cloud

Analyze Spend

Update **financial statements**, and make corrections as needed

SAP Concur
SAP S/4HANA® Cloud

Analyze travel and other spend for SAP Concur and across customer spend

SAP HANA & Analytics

⭐ Basic functionality available

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- Third-party integration - Example

SAP S/4HANA integration for practitioners

Where to find the content relevant to you
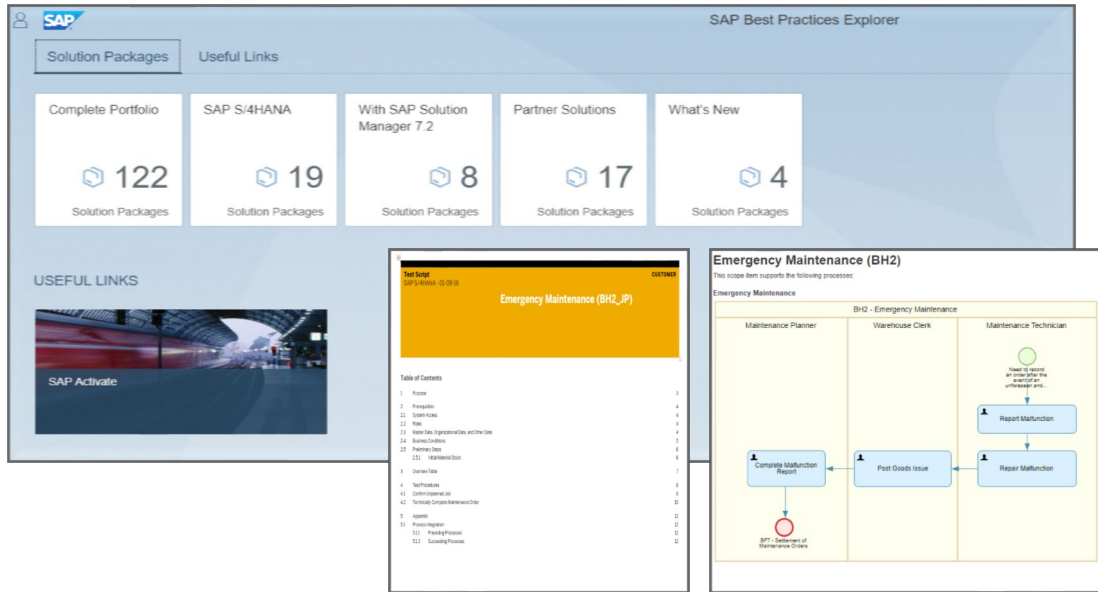
SAP Best Practices for enterprise architects and business process experts

- SAP-created and supported content for implementation success
- Ready-made business scenarios and test content by SAP for implementation by customer
- Low TCI / TCO

SAP API Business Hub for integration experts and developers

- Robust SAP-delivered APIs, CDS Views, Events
- Pre-defined iFlows and field mappings
- Customers own and manage their integration scenarios
- Highest flexibility

SAP Best Practices for cross-application business scenarios

SAP Best Practices Explorer – The web channel experience to search, browse and consume SAP Best Practices

Benefits for Customers & Partners

- One place to find all packaged solutions and best practices (from SAP and partners) for SAP products
- Available for online and offline use

Downloads of Offline Library Best Practices S4HC

- : Partner
- : Customer

	Jul 18	Aug 18	Sep 18	Okt 18	Nov 18	Dez 18	Jan 19	Feb 19	Mrz 19	Apr 19	Mai 19	Jun 19

5289 ... 7324
2590 ... 3807
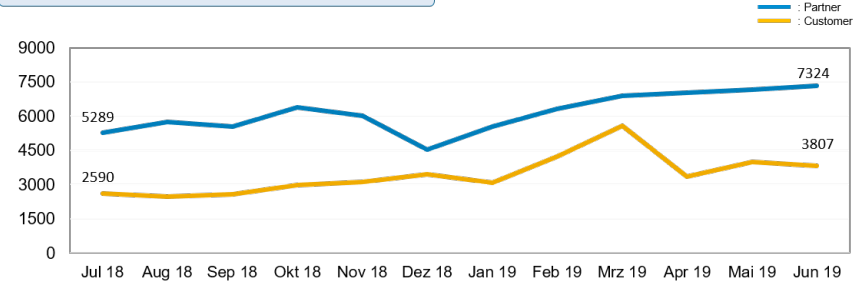
In average, customers and partner download our full set of documentation **11k** times every month now.

SAP S/4HANA cloud usage*

22k Trial accesses

2289 Trial accesses only last month

27.5k Process diagrams accessed

33.8k Test scripts accessed

40 Countries

2988 Customer** using BPX

…from **93** countries

… distributed over **32** industries
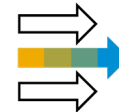
115k Offline downloads

22 Languages

(*) Full Year View 06/18 – 06/19, (**) Known SAP customer with registered S-users

SAP Best Practices Explorer

Demo

SAP Best Practices Explorer

Vision: Automated configuration across SAP apps

S/4HANA Config Bot

Suite App Config Bot

Configuration bot
orchestrates scripted configuration steps across applications, utilizing their respective bots, script fragments, or interfaces
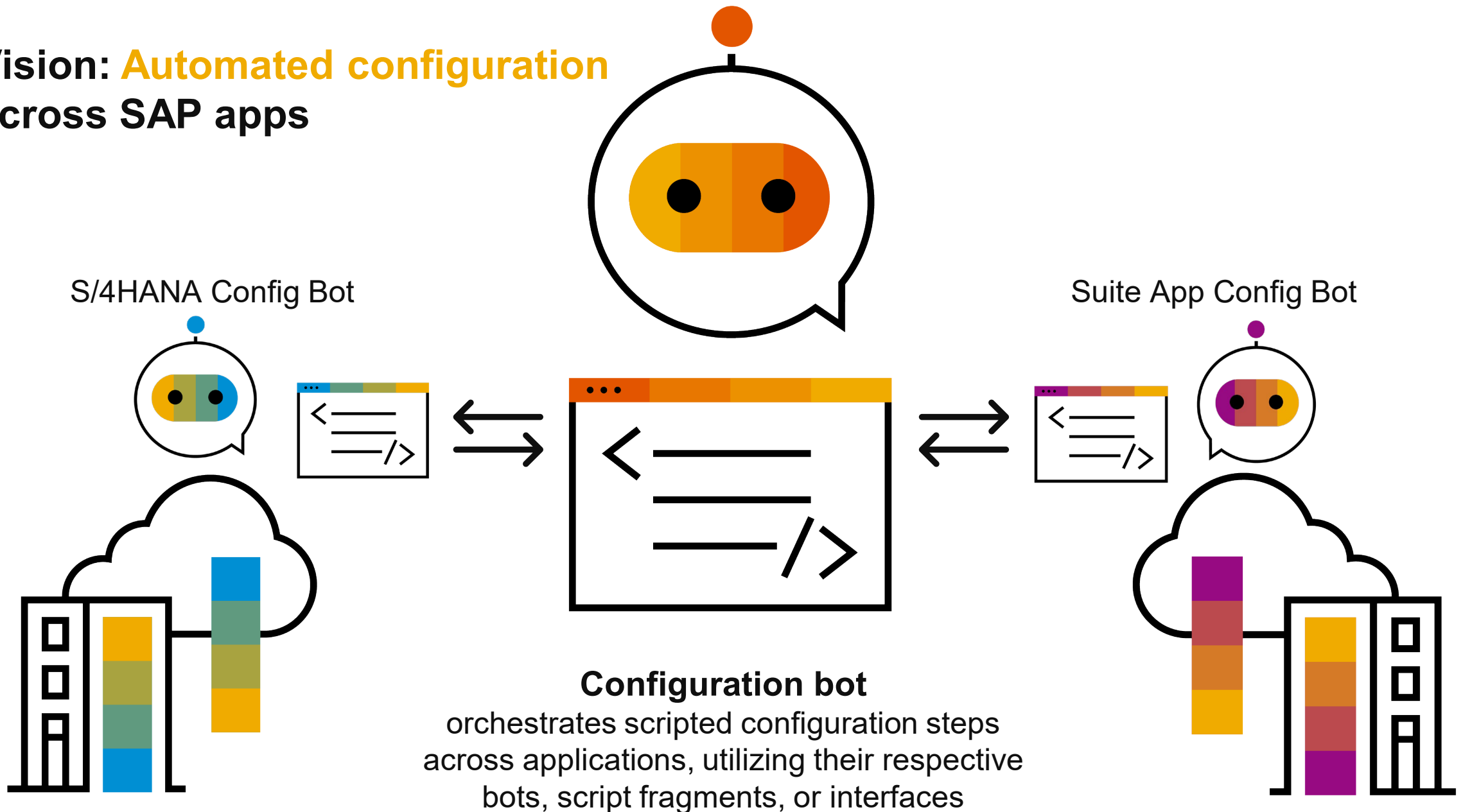
Vision: Automated testing across SAP apps

S/4HANA Test Engine + Bot

Intelligent Suite or 3rd Party App Test Bot

Regression testing bot
orchestrates scripted test steps across applications, utilizing their respective bots and script fragments
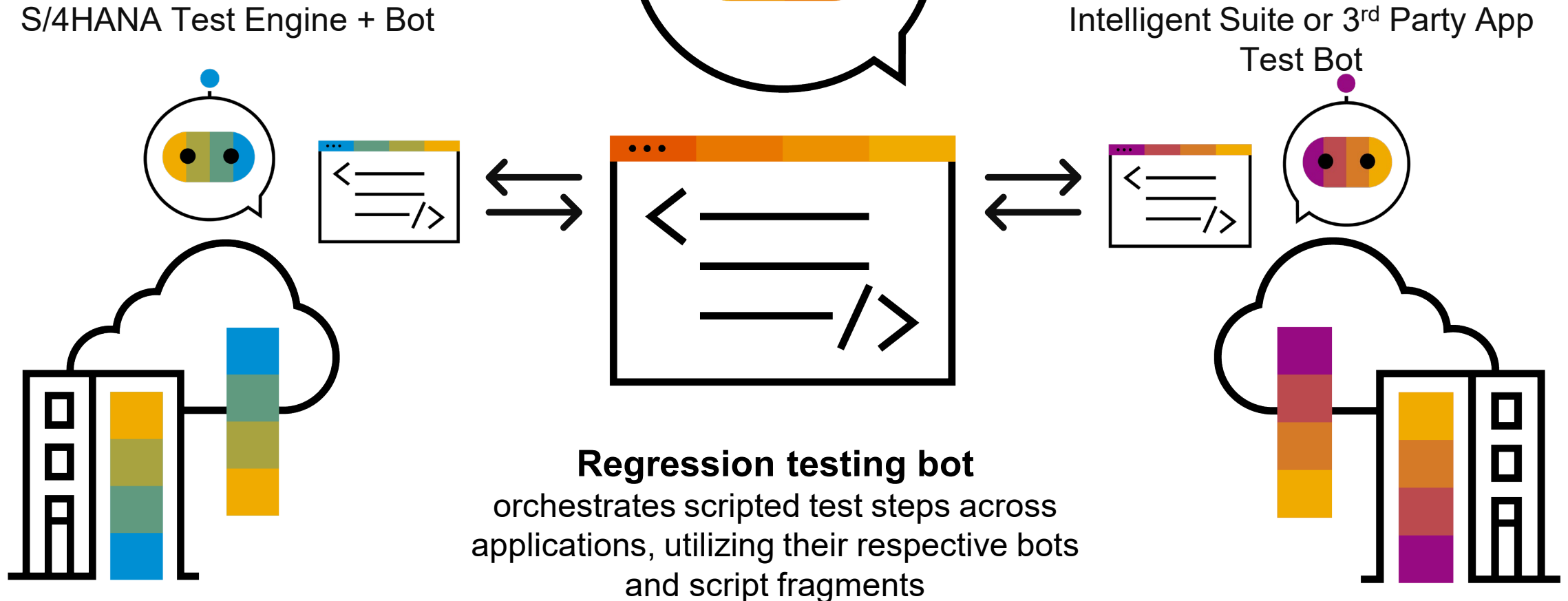
Monitoring for the Intelligent Enterprise Suite

Labs Preview

Selected End-To-End Business Scenarios of the Intelligent Enterprise Suite

Hire-to-Retire → Travel-to-Reimburse → Lead-to-Cash → Source-to-Pay → Design-to-Operate

Process Monitoring (SAP Cloud ALM for Operations)

SAP® Cloud Platform

Monitor → Diagnose → Correct → Improve

Business Process Monitoring
focused on process exceptions based on measured BP KPI's

Integration and Message Monitoring
focused on exceptional and error situations

Application Monitoring
focused on application aspects e.g. exception monitoring, job monitoring, …

Business Process Improvement
focused on optimizing processes

Customer Managed Systems

SAP® Cloud Platform
On-premise IT Landscape
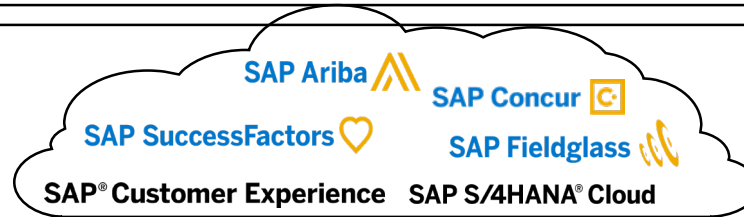
SAP Ariba
SAP Concur
SAP SuccessFactors
SAP Fieldglass
SAP® Customer Experience   **SAP S/4HANA® Cloud**
SAP Cloud Applications
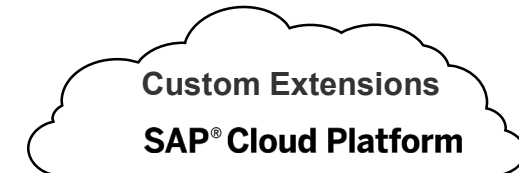
Custom Extensions
SAP® Cloud Platform

support.sap.com/en/alm.html

Integration **assessment**
Service approach

Integration Assessment
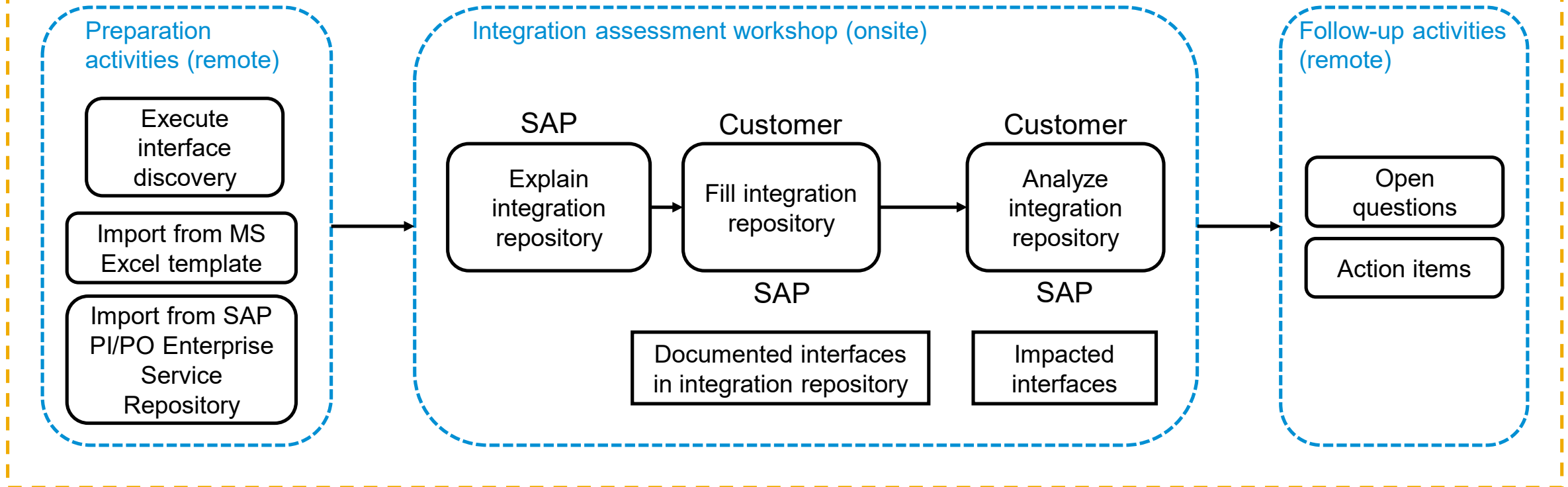
Preparation activities (remote)
- Execute interface discovery
- Import from MS Excel template
- Import from SAP PI/PO Enterprise Service Repository

Integration assessment workshop (onsite)

SAP — Explain integration repository → Customer — Fill integration repository → Customer — Analyze integration repository

SAP — Documented interfaces in integration repository

SAP — Impacted interfaces

Follow-up activities (remote)
- Open questions
- Action items

https://wiki.scn.sap.com/wiki/x/1AYbHw

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- Public APIs, business events, CDS views

Demo
- Third-party integration - Example

Options for connecting, extending and integrating SAP S/4HANA Cloud

Public APIs

- Enable customers digitizing their business to securely connect apps to other systems
- Published on SAP API Business Hub

CDS Views

- **Read** data from SAP S/4HANA Cloud system
- Could be consumed as **OData services** using custom communication arrangements
- Published on SAP API Business Hub

Business Events (beta)

- System-wide event mechanism for business objects across SAP S/4HANA Cloud applications
- Industry standards Cloud Events, AsyncAPI
- Support event-driven architecture for seamless communication across different platforms
- More info available in Business Event Handling
- Published on SAP API Business Hub

SAP Cloud Applications

3rd Party Cloud

SAP S/4HANA Cloud

SAP On-Premise Solutions

SAP S/4HANA

3rd Party On-Premise
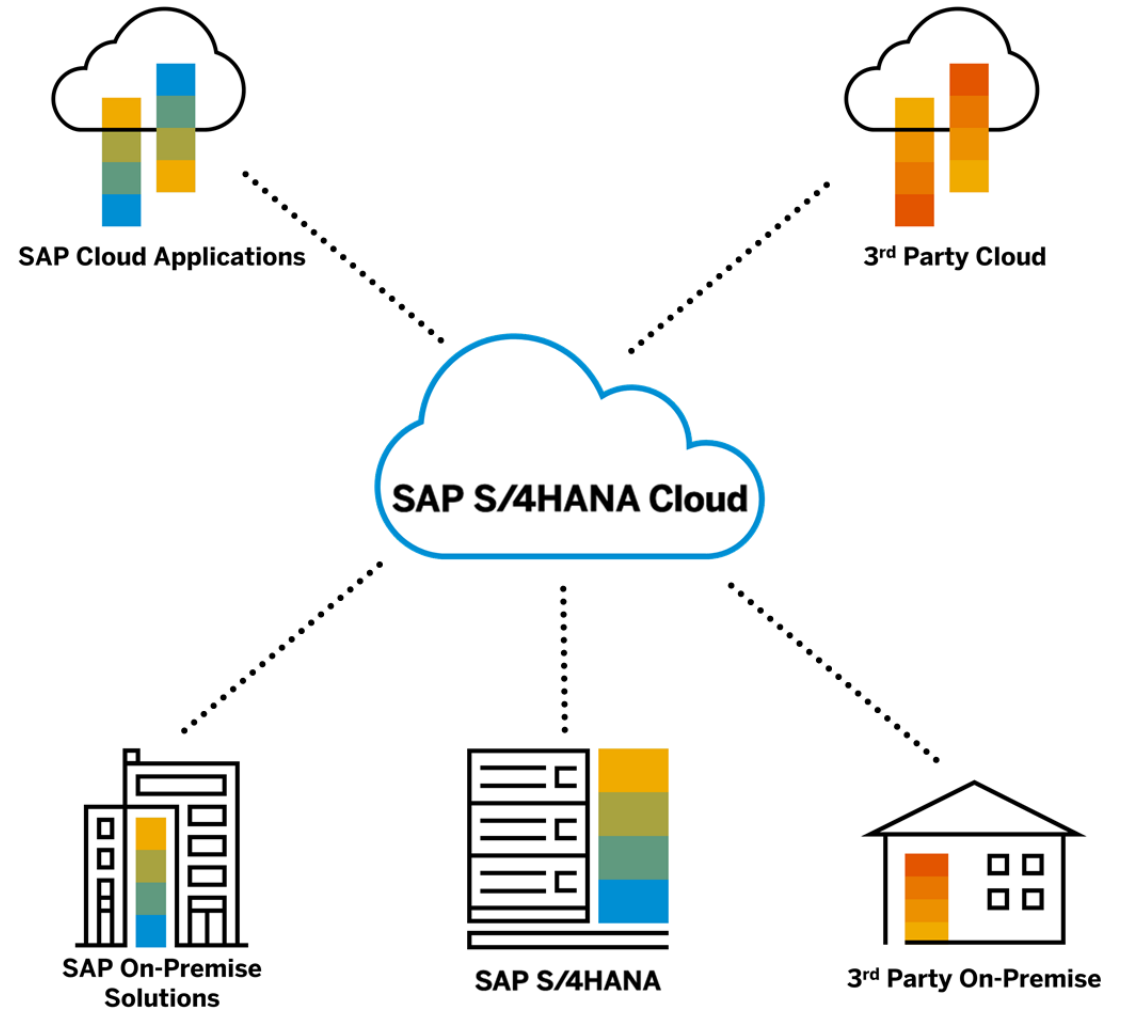
Further integration options for SAP S/4HANA Cloud

Legacy APIs

- Released **BAPI & IDoc** can be used to connect SAP S/4HANA Cloud with SAP on-premise applications.

- Published and released via SAP notes (BAPI/IDoc)

- Exceptions for third-party connection need to be approved by SAP

SAP Intelligent Robotic Process Automation

- Transform "swivel chair integration" procedures into efficient self-driving bots

- Accelerate time-to-market cycles

- Try out new processes and experiment at scale

- Use pre-defined content for popular use cases

SAP Cloud Applications

3rd Party Cloud

SAP S/4HANA Cloud

SAP On-Premise Solutions

SAP S/4HANA

3rd Party On-Premise
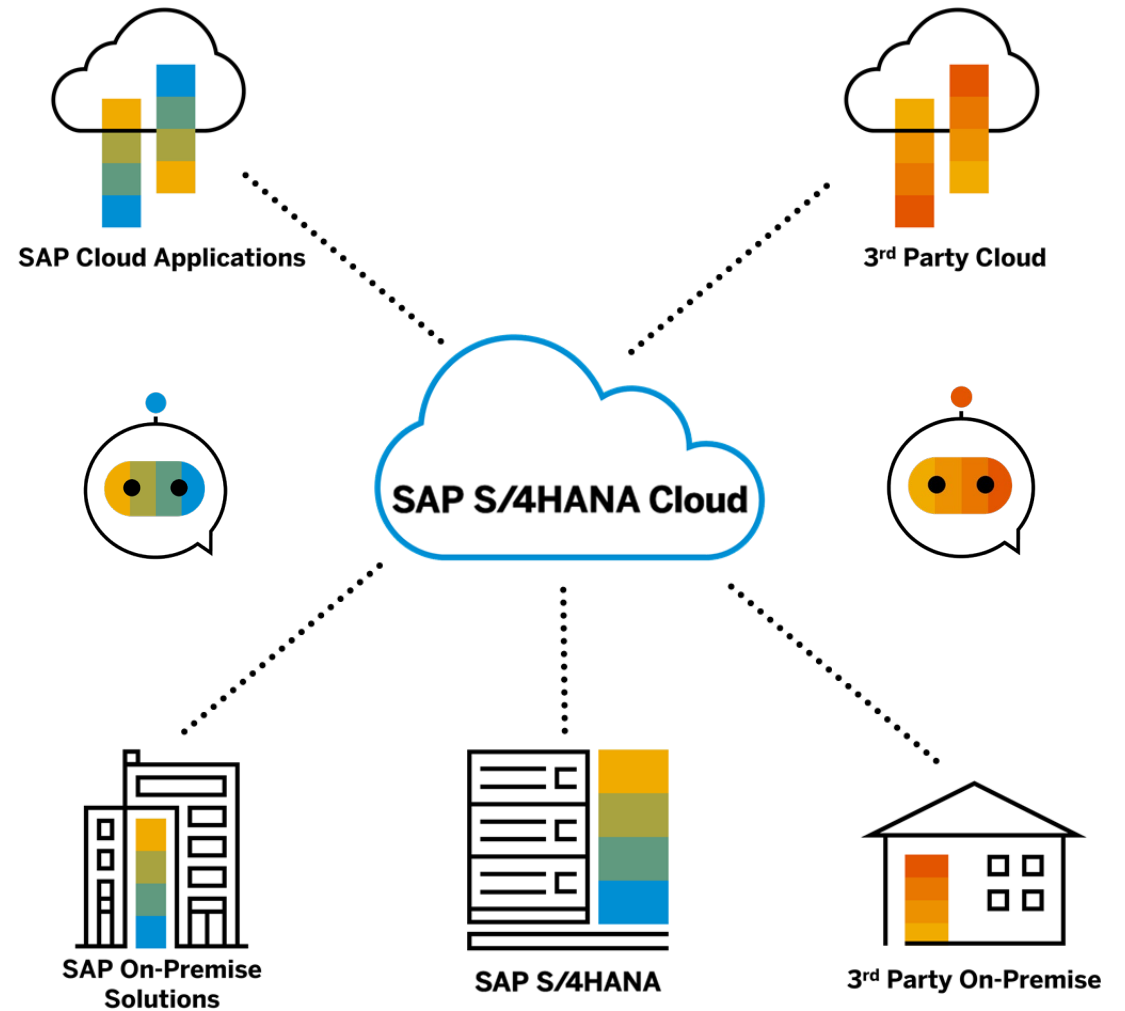
SAP API Business Hub: Accelerator for digital transformation

Search, discover, experience, and consume the right APIs from SAP and selected partners for your digital transformation projects
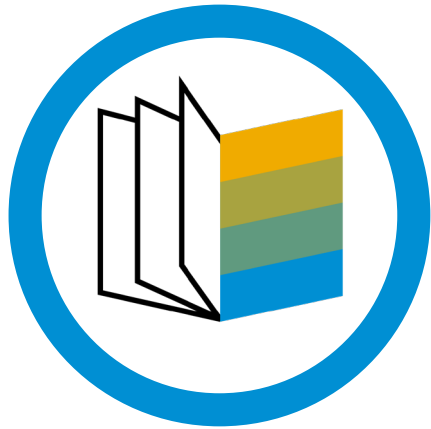
Catalog

Central place for APIs from SAP and its partners
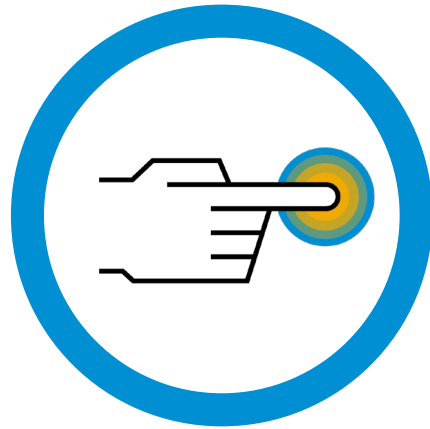
API sandbox

One click-test experience for developers via API sandbox
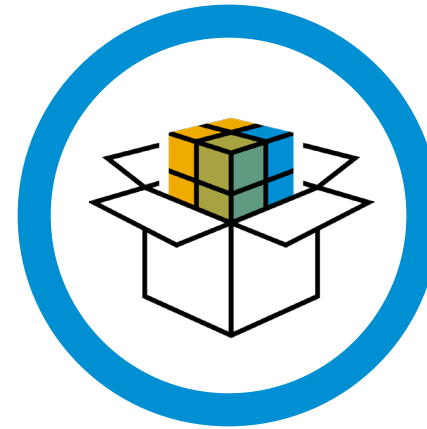
Prepackaged accelarators

Integration packages to integrate APIs
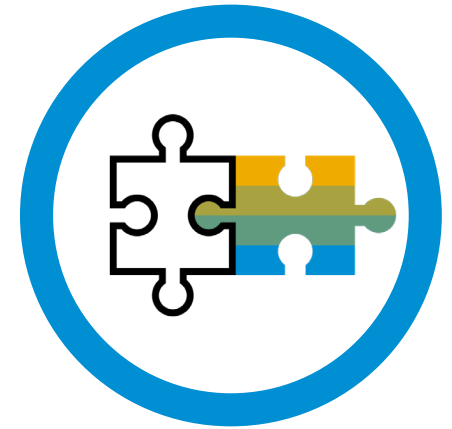
Easy consumption

Integration with developer IDE and code generation

https://api.sap.com/

Demo

SAP API Business Hub

- Public APIs

- CDS views

- Business events (beta)

- Third-party integration content

SAP Cloud Platform Open Connectors

Accelerate connectivity to third-party applications

Pre-built connectors

Out of the box connectivity to non-SAP applications

- Feature rich connectors to 150+ non-SAP applications
- Easily connect to top SaaS application in use
- Built-in interactive API documentation in Open API Spec

Common resources

Canonical data model to extend connectors

- Create consistent data model based on your integration needs
- Extend resources easily with Common Resources

Formulas

Easily build API compositions across connectors

- Build a single template that you can reuse with different connectors and values
- Wrap multiple operations in a single request

SAP Cloud Platform Integration and Open Connectors

End-to-End integration from SAP to non-SAP apps
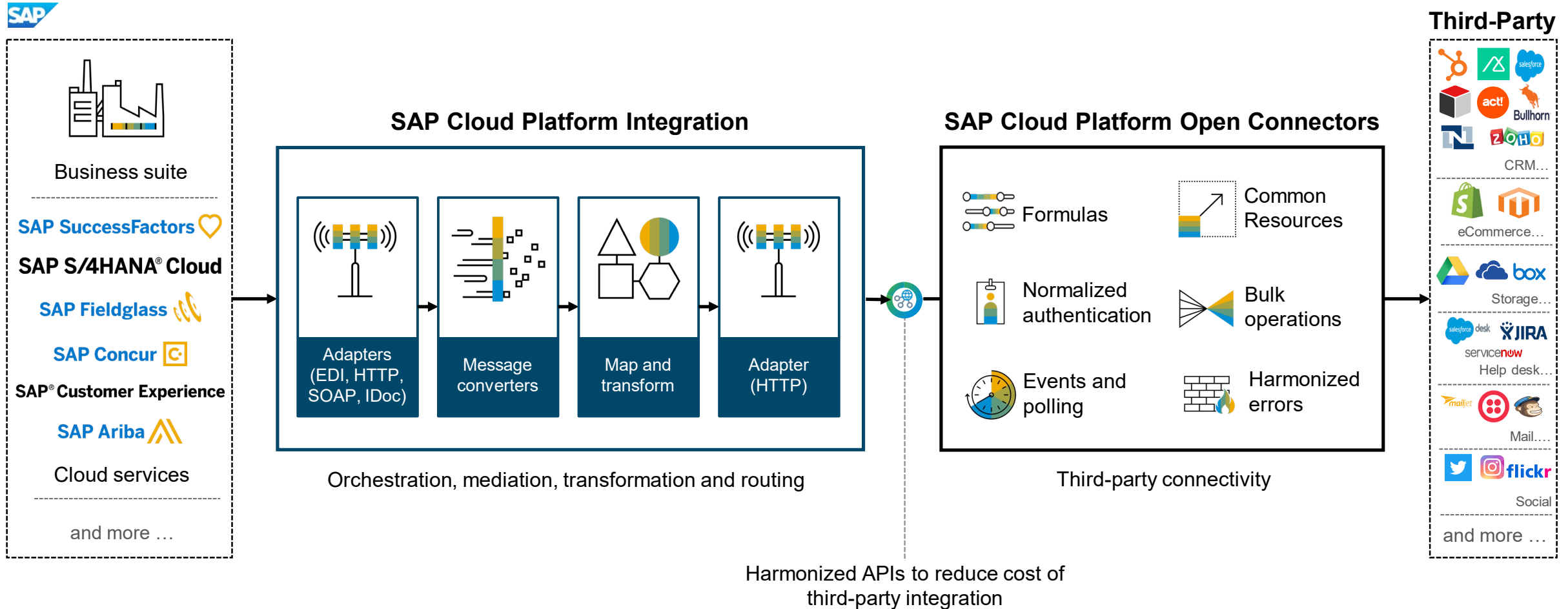
SAP

Business suite

SAP SuccessFactors

SAP S/4HANA® Cloud

SAP Fieldglass

SAP Concur

SAP® Customer Experience

SAP Ariba

Cloud services

and more …

SAP Cloud Platform Integration

| Adapters (EDI, HTTP, SOAP, IDoc) | Message converters | Map and transform | Adapter (HTTP) |

Orchestration, mediation, transformation and routing

SAP Cloud Platform Open Connectors

- Formulas
- Common Resources
- Normalized authentication
- Bulk operations
- Events and polling
- Harmonized errors

Third-party connectivity

Third-Party

CRM…

eCommerce…

Storage…

Help desk…

Mail…

Social

and more …

Harmonized APIs to reduce cost of third-party integration

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Demo

- Third-party integration - Example

Demo
What is the demo about?

Example configuration of a communication scenario in SAP S/4HANA Cloud to consume a SOAP API in a third-party system

- SAP Cloud Platform Integration represents a third-party system

SAP Cloud Platform Integration
- Building of an integration flow

SAP S/4HANA Cloud
- Configure Communication Management

Replicate company codes
- Send company codes from SAP S/4HANA Cloud to SAP Cloud Platform Integration
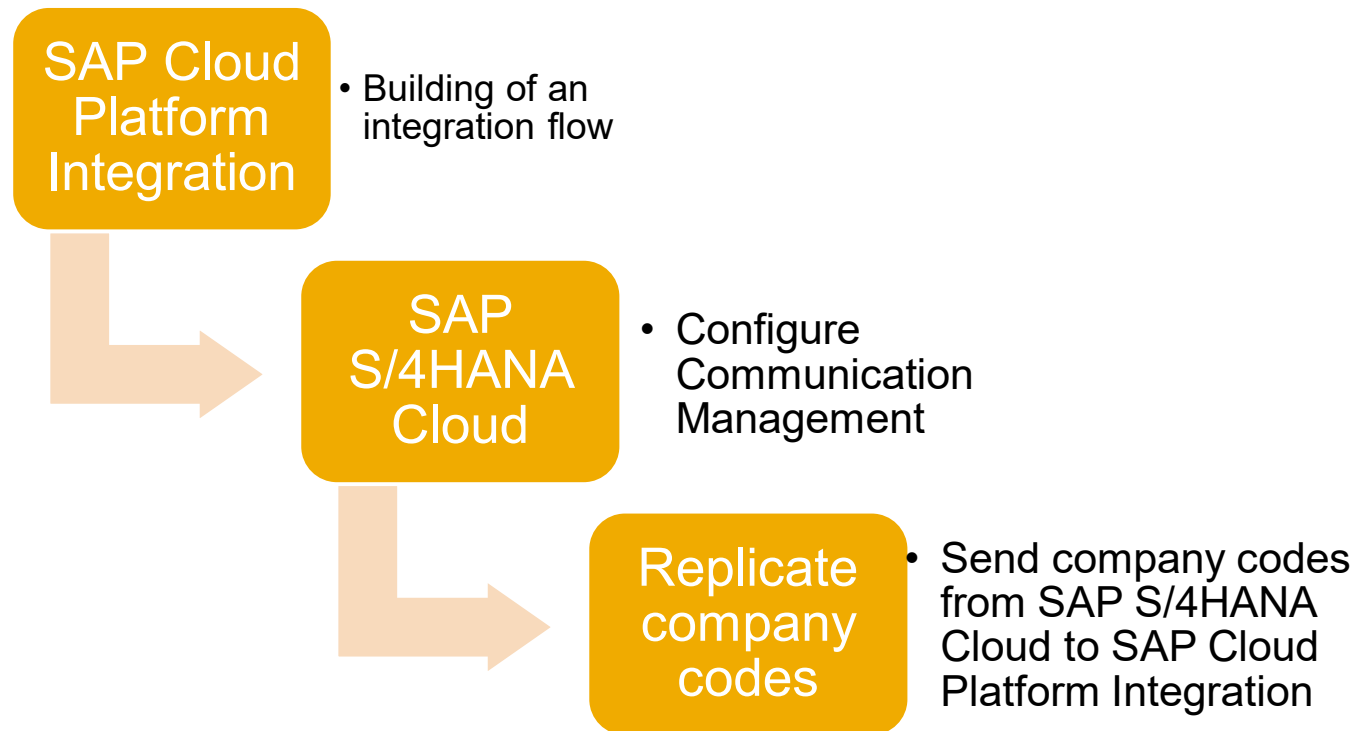
Demo

Third-party integration example

High-level SAP S/4HANA Cloud integration checklist

Ready-made to home-made, found to conceived

Check integration scope:
- SAP Best Practices Explorer
- APIs, Scope Items, and Communication Scenarios
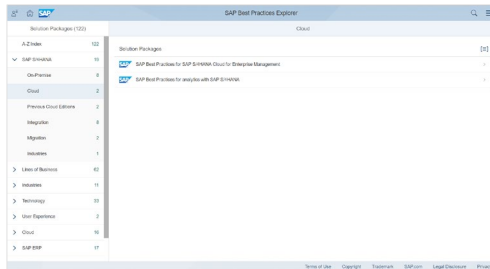
Check APIs and iFlows:
- SAP API Business Hub
- BAPI
- IDoc
- Custom CDS Views
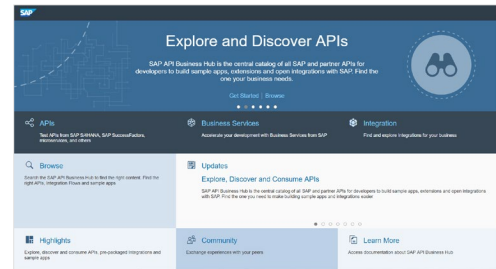
Check product roadmap:

- SAP S/4HANA Cloud Roadmap
- SAP Innovation Discovery

Request a new SAP S/4HANA Cloud API
- Customer Influence Portal
- Impediment
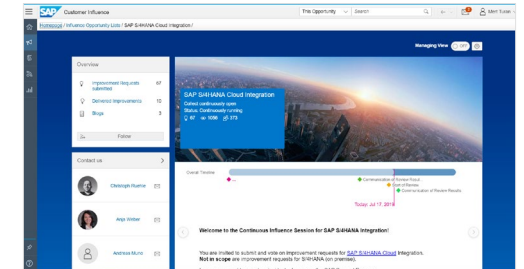
SAP S/4HANA Cloud Integration Checklist Blog

SAP S/4HANA Cloud product roadmap for integration

SAP Road Maps

- Get a view of the highlighted innovations and a description of how features and function capabilities of an SAP product or technology are planned to progress over time

SAP Innovation Discovery

- Get a view of the innovations and features related to different SAP technologies

SAP innovation management

How you can influence product development at SAP

Customer influence process

- Influence the roadmap of SAP S/4HANA Cloud
  - Submit your improvement or innovation requests
  - Gather votes and insights from your peers
  - Vote on requests from your peers
  - Discuss submissions of your peers
  - Communicate with product management

Customer influence campaigns

- https://influence.sap.com/SAPS4HANACloud

- https://influence.sap.com/S4HCIntegration

- https://influence.sap.com/S4HCExtensibility

Customer impediment process

- *Go-live critical* impediments for your SAP S/4HANA Cloud implementation project can be addressed with the customer care colleagues
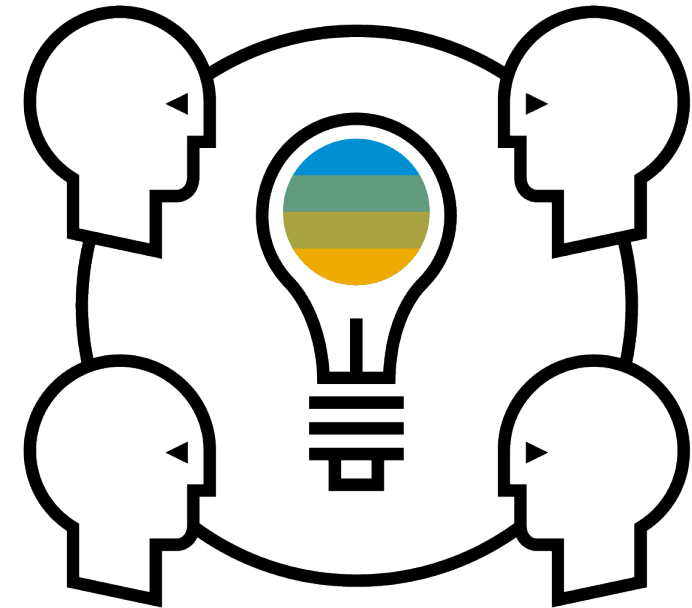
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- Learn from peers and experts

SAP TechEd blog posts

More information
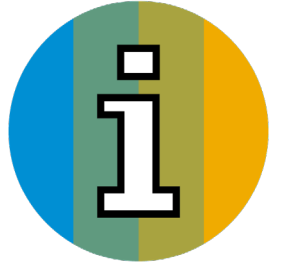
Related SAP TechEd Learning Journeys

- iENT1 – Deliver the Intelligent Enterprise along key end-to-end processes
- iENT2 – Innovate and transform your business processes with cloud solutions from SAP
- INT1 – Connect with an intelligent suite in a hybrid landscape
- INT2 – Master integration technologies uniting your intelligent suite

Related SAP TechEd Sessions

- CAA122 – Extensibility for SAP S/4HANA: The Big Picture
- iENT203 – Explore the Integrated Intelligent Enterprise: Total Workforce Management
- INT202 – AI-Driven and Open Integration to Customize Intelligent Suite Scenarios
- INT300 – Simplify Master Data Integration with Services from SAP Cloud Platform

Public SAP Web sites

- SAP Community: www.sap.com/community
- SAP Products: www.sap.com/products
- SAP API Business Hub https://api.sap.com/
- SAP Best Practices Explorer https://rapid.sap.com/bp/
- SAP Road Maps https://www.sap.com/products/roadmaps.cross -topics.html
- SAP Innovation Discovery https://go.support.sap.com /innovationdiscovery/

SAP S/4HANA Cloud Community: s4hanacloud.community.sap/home
SAP S/4HANA Cloud Integration Checklist: blogs.sap.com/2017/06/09 /sap-s4hana-cloud-integration-checklist/
SAP CIO Guide Integration: https://www.sapsa.se/wp-content/uploads/2018/11/100- SAP_CIO_For_Integration_ISAM_IFG_201811.pdf
SAP Activate for SAP S/4HANA Cloud: www.sap.com/products/activate-methodology.html

Thanks for attending this session.

Feedback

Please complete your session evaluation
for CAA123.

Contact for further topic inquiries

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Mert.Turan@sap.com

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