





What We'll Cover

Introduction to SAP Extension Suite

Motivation, main components in scope, extension approaches for S/4HANA

Customer showcase – Clean ERP using Extension Suite

Best Practices and Lessons Learned

Product showcase – Overview, UX and expected benefits

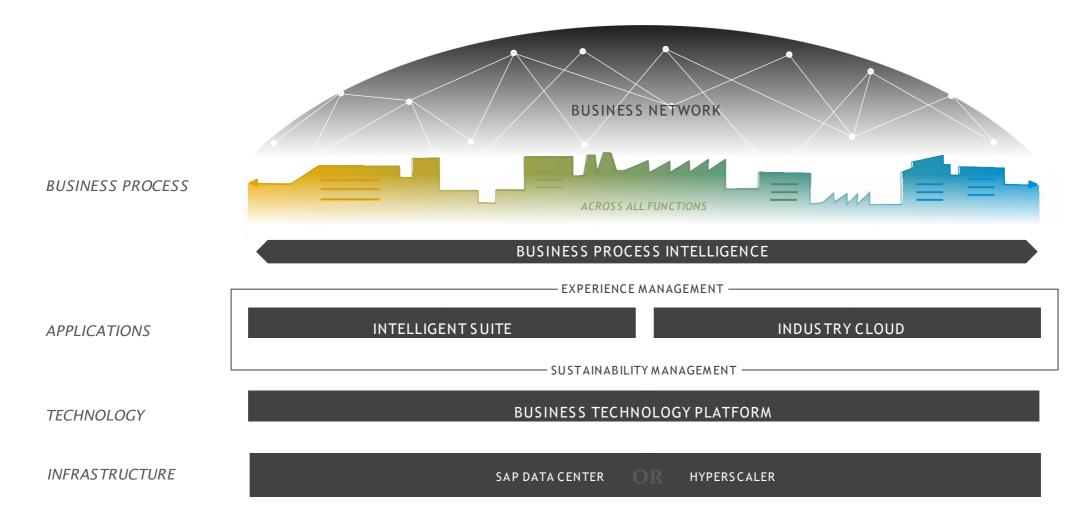
Q/A

Introduction to SAP Extension Suite

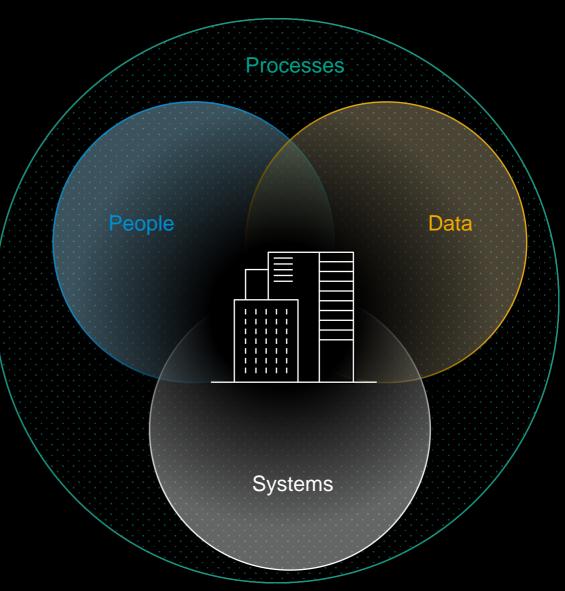


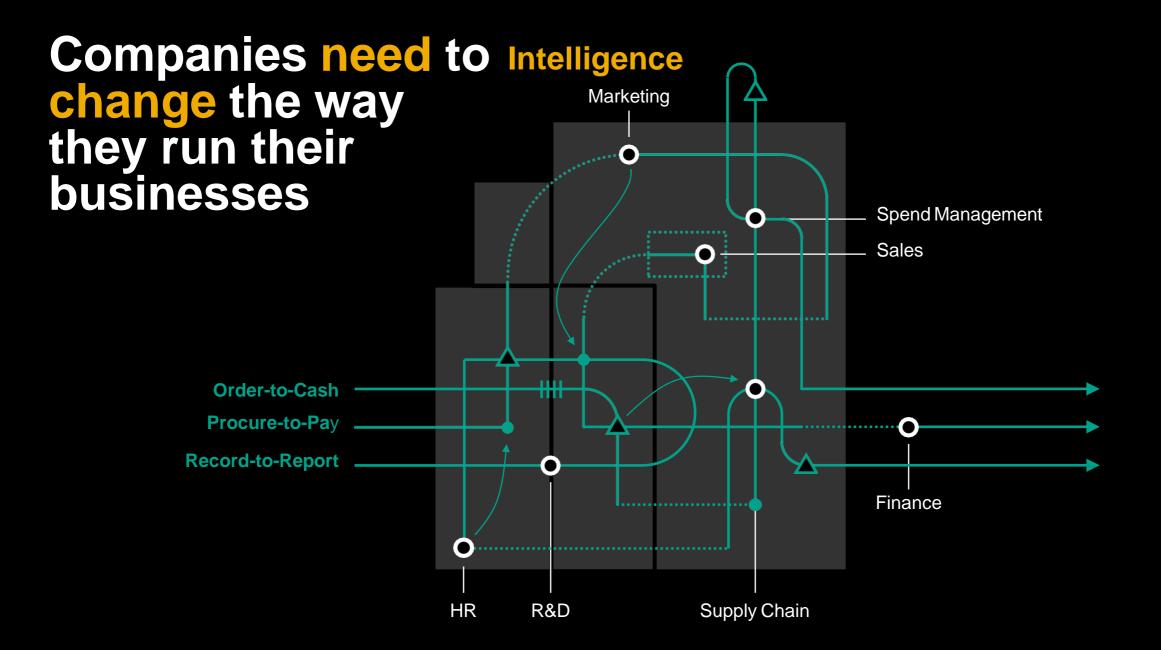
INTELLIGENT ENTERPRISE

Evolved Vision.

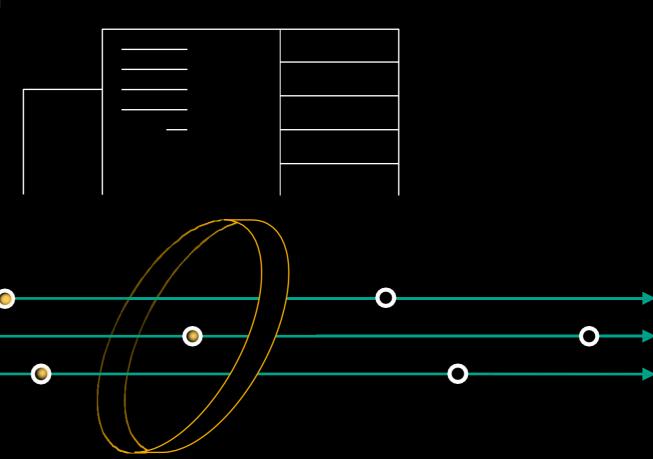






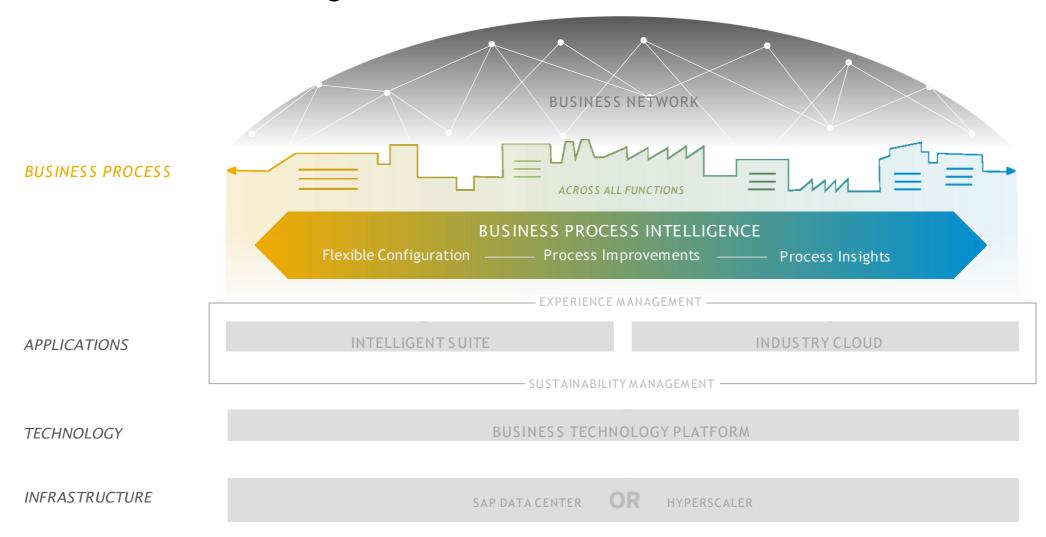


Understanding Processes and seamlessly transform them towards End-to-end automation

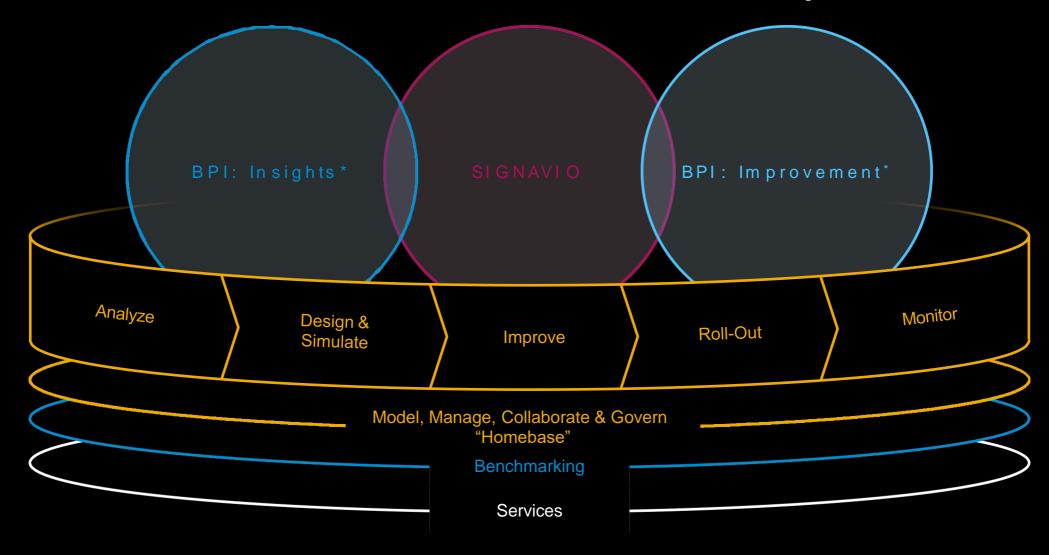


KEY ELEMENT

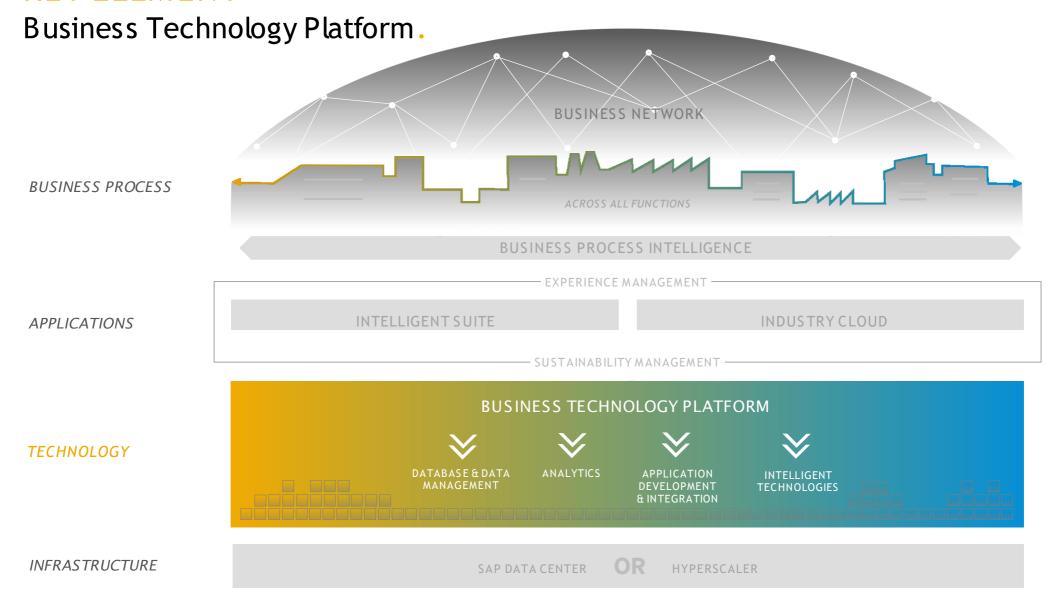
Business Process Intelligence.



Business process intelligence from SAP enables organizations to continuously understand, innovate and transform all of their business processes.

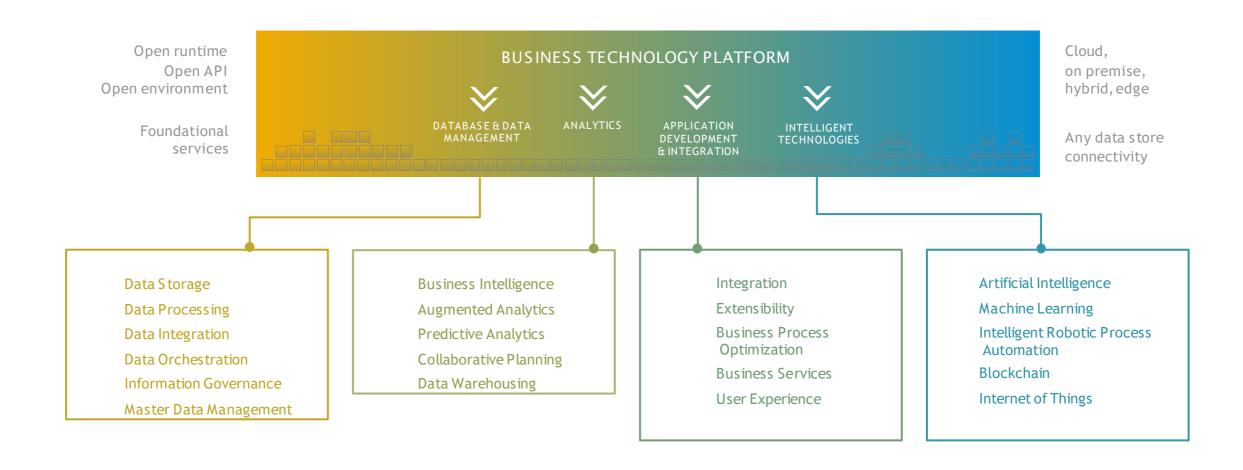


KEY ELEMENT



DEEP DIVE

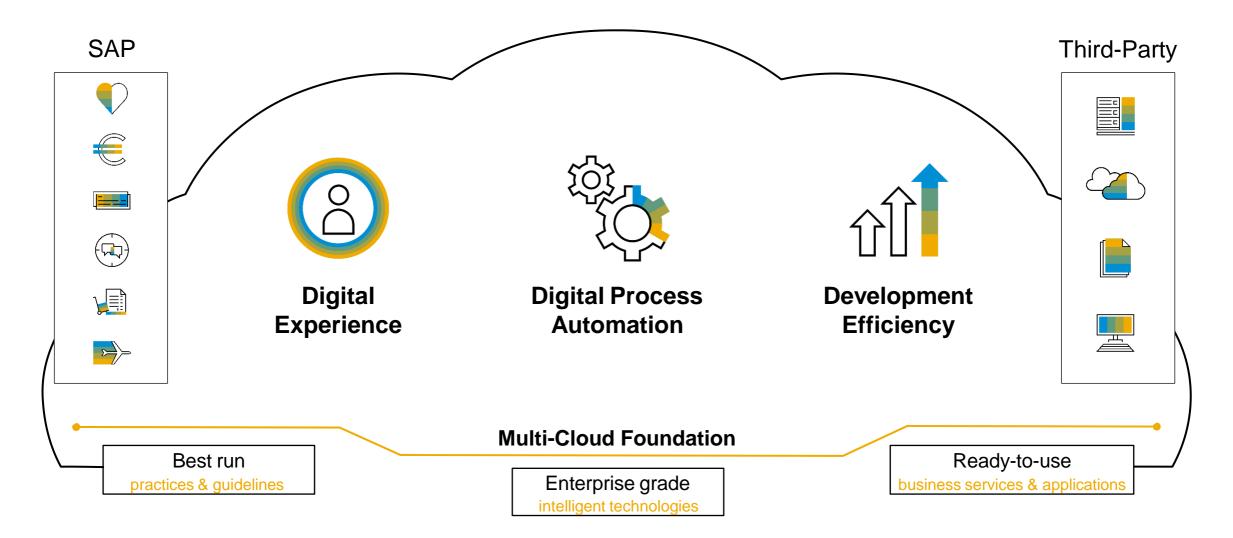
Business Technology Platform.



SAP Extension Suite

SAP BTP

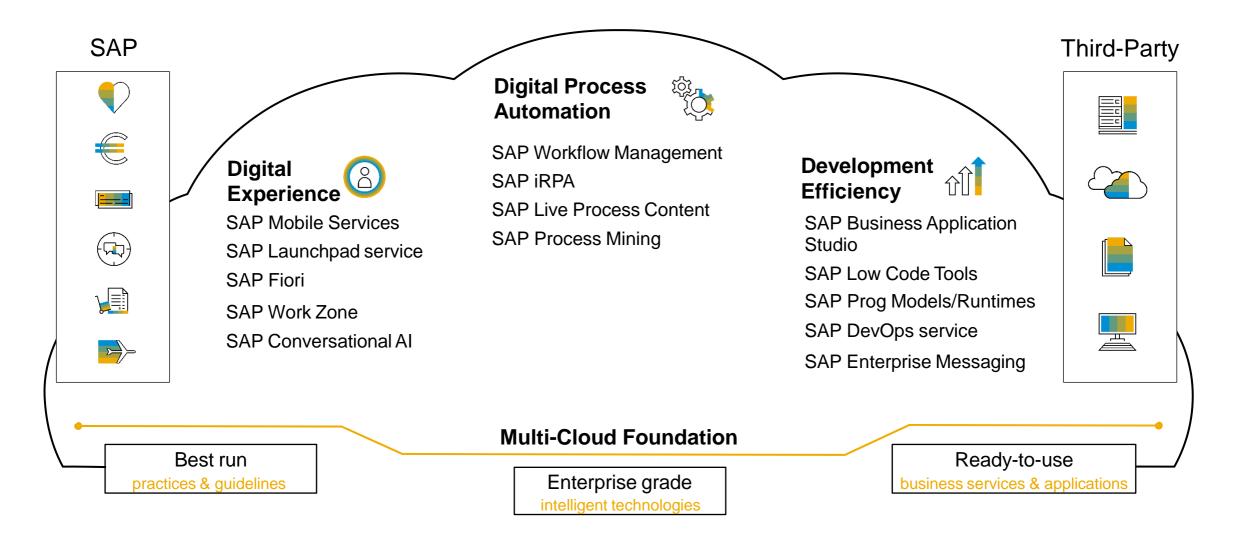
Simplify development of your application extensions



SAP Extension Suite



Simplify development of your application extensions



The Business Technology Platform Advantage



Pre-Built Content

- 1,800+ prebuilt integration packs
- 160+ connectors to SAP and third-party systems
- Over 100 pre-built Analytics content packages
- Industry & LOB content and process workflows



Cloud Native Extensions

- Extend S/4HANA to new users
- Modify or add new functionality quickly
- Extensions upgrade seamlessly
- Minimizes maintenance costs



Partner Ecosystem

- Access to 15,000 partners across 25 industries
- Deliver digital content and business workflows
- Implement best practices

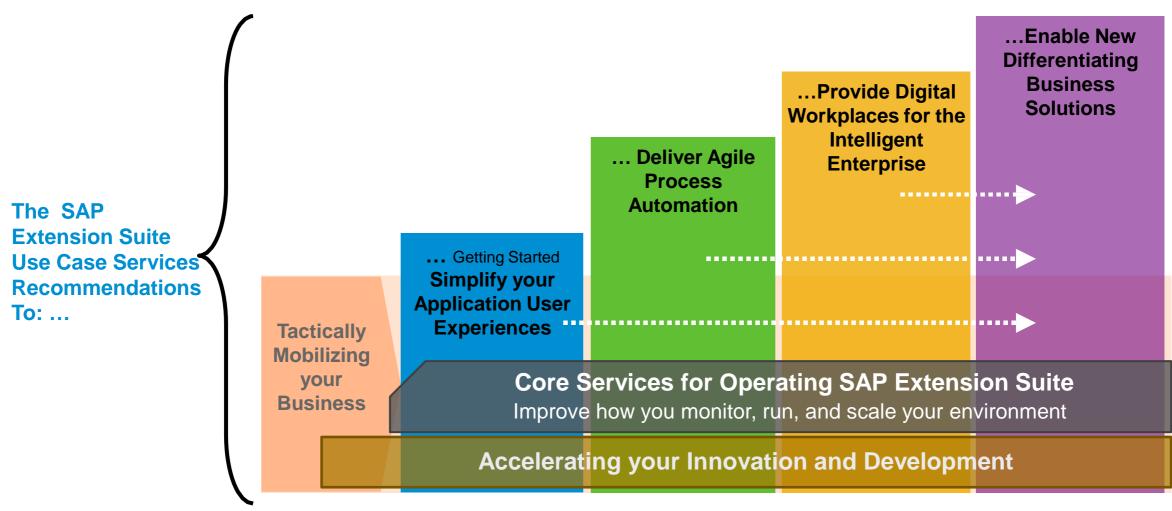


Minimal Risk

- Credits to pilot for free
- Consumption based pricing

SAP Extension Suite use case "Recommended Services"

An easy way to start your transformational journey with the Extension Suite

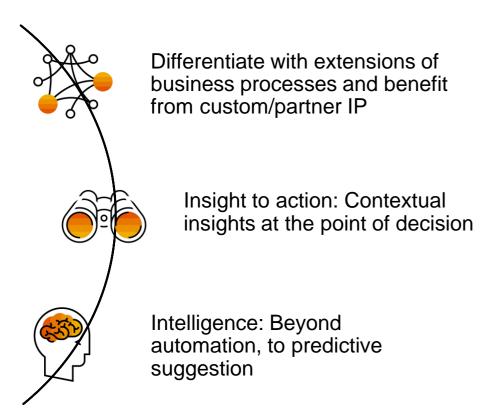


^{*} Additional Use Cases will / may be added over time

Benefits of Extending S/4HANA with SAP BTP

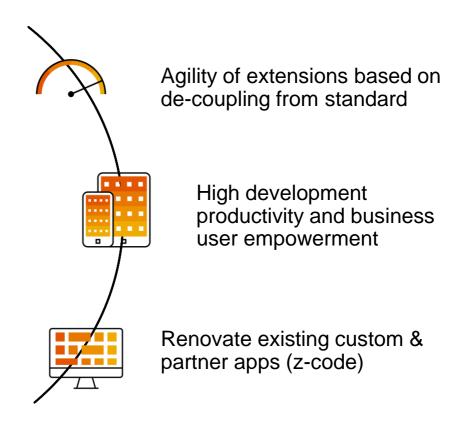
Business Perspective

Competitive advantage with custom specific innovations of business processes



IT Perspective

De-coupling of extensions and standard tight integration with SAP & third-party apps



SAP S/4HANA SAP Business Technology Platform



Accelerate and simplify migration

Migrate and maintain relevant data, deliver trusted master data, and keep the core clean by decoupling custom code



Optimize and automate business processes

Integrate, optimize, and automate processes with 1,800+ pre-built integrations and comprehensive tools



Differentiate to gain competitive advantage

High value Analytics and Intelligent Technologies are embedded in SAP S/4HANA to accelerate customer value realization

BTP Is Purpose Built for the S/4HANA Journey

Convert data & code with pre-built conversion services Integrate to SAP & 3rd Party Systems with **pre-defined integration flows** Automate S/4HANA processes with **pre-built workflow patterns Automate &** Re-Invent **Optimize Processes Processes** Create Role based dashboards with **pre-delivered embedded analytics** Continuous Redefine the user experience with **pre-built intelligent bots Improvement** Cycle **Redefine User Monitor Experience Processes** Integration **GO LIVE** Execute Extract, Clean & Define **Configuration & Move Data Modification** Processes **Processes**

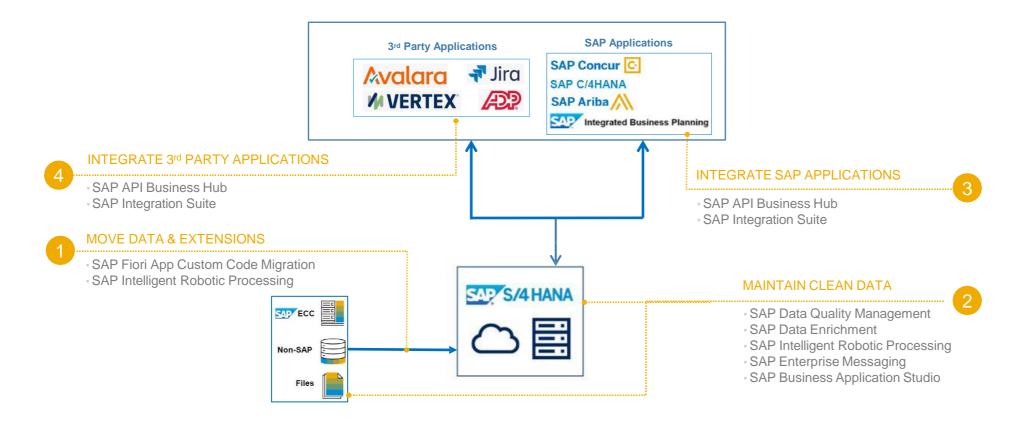
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Intelligent Enterprise

ERP Replacement

BTP Accelerates Move to S/4HANA





Explore BTP *Acceleration* Use Cases



MOVE DATA & EXTENSIONS

- Custom Code Migration Application
- Business Partner Data Conversion
- Automated Upload of Documents

MAINTAIN CLEAN DATA

- Business Partner Background Check
- Business Partner Master Data Check
- Eliminate data duplication in your master data¹

INTEGRATE SAP APPLICATIONS¹

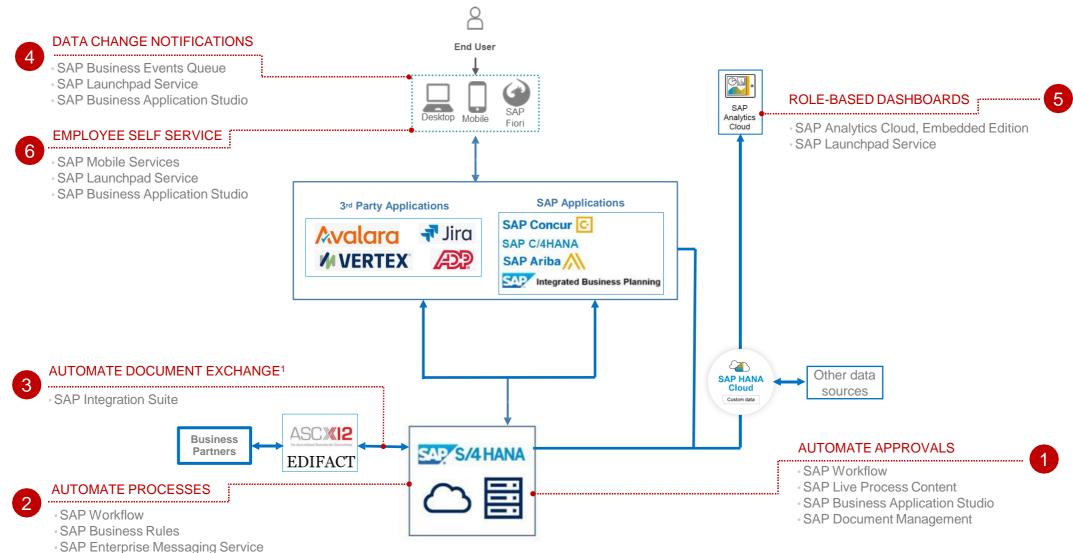
- Integrate with SAP Concur
- Synch Purchase Requisition Documents to SAP Ariba Buying
- Integrate with SAP Field Service Management
- Integrate with SAP Fieldglass
- Integrate with SAP Subscription Billing
- Integrate with SAP SuccessFactors Employee Central
- Integrate with SAP Supply Base Optimization
- Integrate with SAP Customer Engagement Center
- Integrate with SAP Project Intelligence Network
- Integrate with SAP Market Rates Management

INTEGRATE 3rd PARTY APPLICATIONS1

- Publish Documents from SAP S/4HANA Cloud to SharePoint
- Integrate IAS with Third-party IDP
- Integrate with OEM Just-In-Time Solution
- Integrate with Avalara AvaTax
- Integrate with Vertex Tax Solution
- Integrate with Third-party Payroll
- Integrate with Salesforce
- Integrate with Jira

BTP Optimizes S/4HANA Processes





Explore BTP Optimization Use Cases



AUTOMATE APPROVALS

- Automate Payment Data Approvals
- Automate Capital Expenditure Approvals
- Automate Purchase Requisition Approvals
- Add additional approval steps to an SAP S/4HANA standard process
- Automate Document Centric Approval Process

AUTOMATE PROCESSES

 Automate Contract to Purchase Requisition Assignment

AUTOMATE DOCUMENT EXCHANGE¹

- Automate Supplier Document Exchange
- Automate Procurement Document Exchange

DATA CHANGE NOTIFICATIONS

New/Changed Sales Order Alerts

ROLE-BASED DASHBOARDS

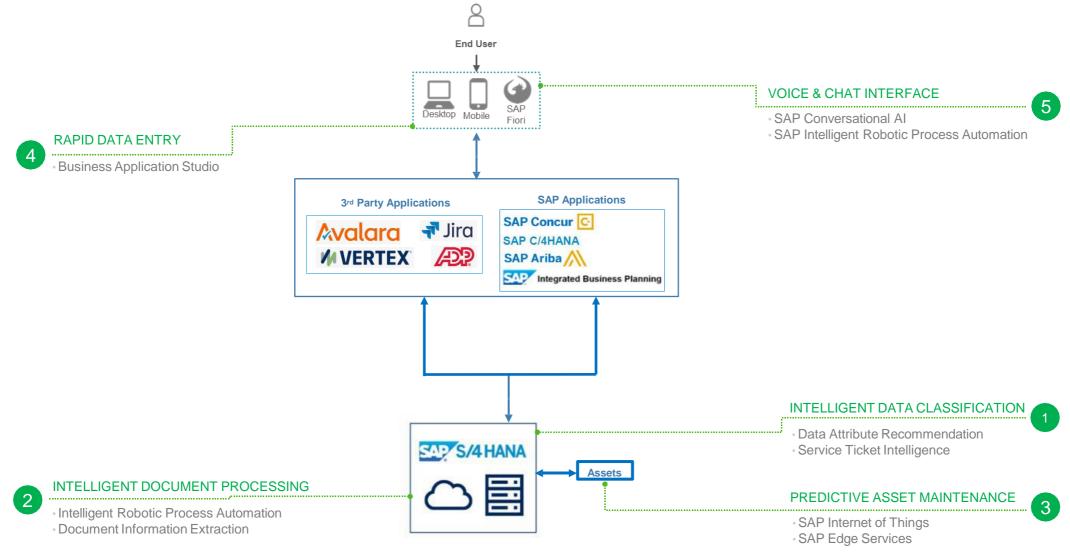
Live HR Data Cross-Suite Reporting

EMPLOYEE SELF SERVICE

- Mobile Access to HR Data
- Mobile Self Service for Remote Workers

BTP *Differentiates* S/4HANA for Advantage





Explore BTP *Differentiation* Use Cases



INTELLIGENT DATA CLASSIFICATION

- Automate Material Data Classification
- Automate Ticket Handling with Service Ticket Intelligence

INTELLIGENT DOCUMENT PROCESSING

- Automate Document Processing
- Automate Document Data Extraction
- Automatic Return Creation from Excel

PREDICTIVE ASSET MAINTENANCE

 <u>IoT enabled Field Service Management to</u> automate Service Calls

RAPID DATA ENTRY

Quick Work Time Entry

VOICE & CHAT INTERFACE

- Access documents via a chatbot.
- Supplier Invoice Status Checks

SAP S/4HANA



SAP Business Technology Platform



Accelerate and simplify migration

- Move Data & Extensions
- Keep Data Clean
- Integrate SAP Applications
- Integrate 3rd Party Applications



Optimize and automate business processes

- Automate Approvals
- Automate Processes
- Automate Document Exchange
- Data Change Notifications
- Role-Based Dashboards
- Employee Self-Service



Differentiate to gain competitive advantage

- Intelligent Data Classification
- Intelligent Document Processing
- Predictive Asset Maintenance
- Rapid Data Entry
- · Voice & Chat Interface

Discover these use cases and more:

SAP Extensibility Explorer

SAP API Business Hub



SAP Intelligent Robotic Process Automation Store



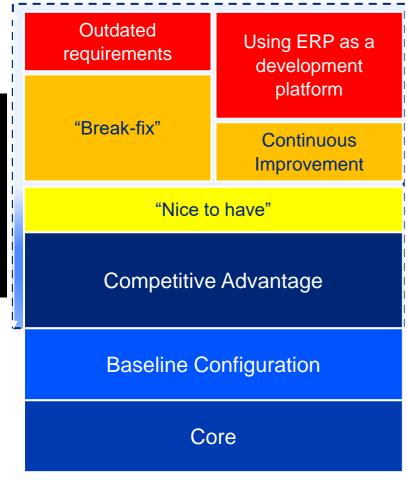
SAP Discovery Center

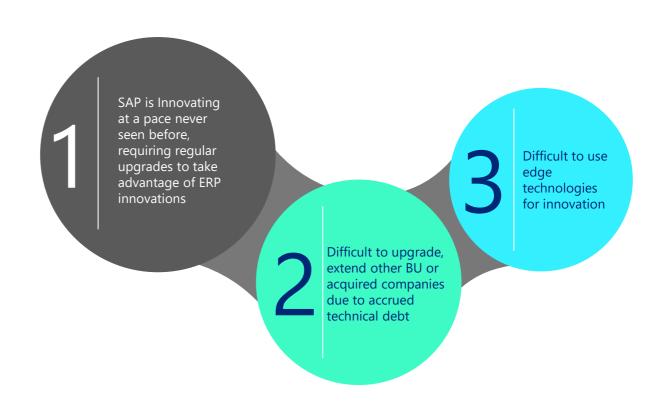
Motivation and main components



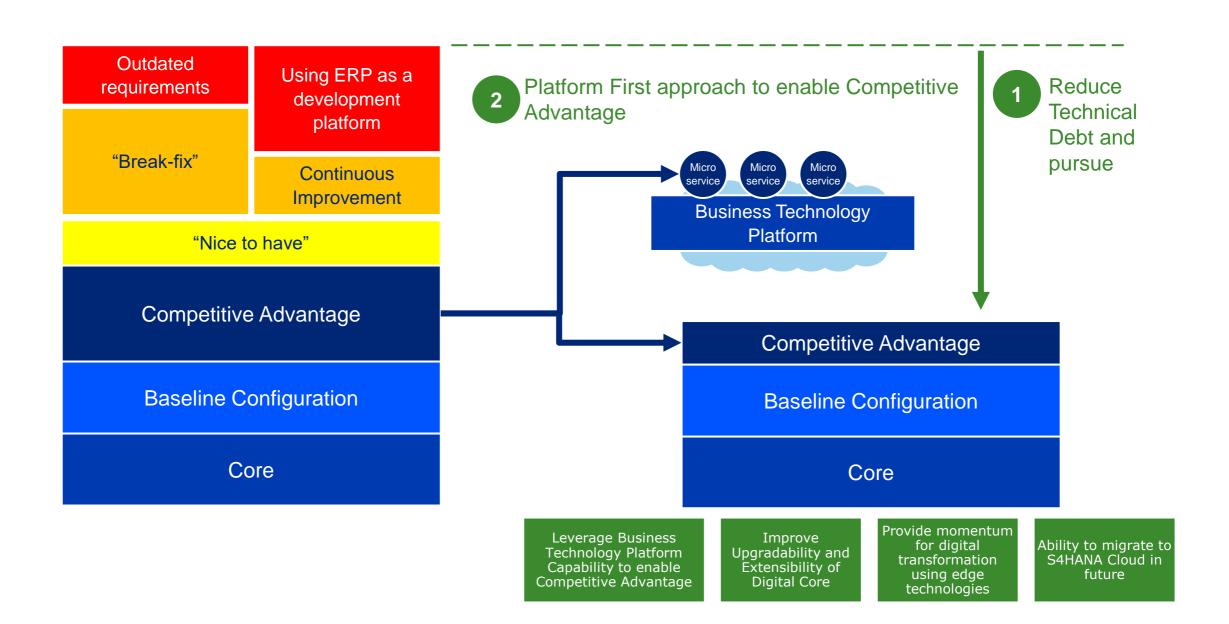
The Problem

Traditional ERP Implementations





Fit to Standard and deploying Clean ERP is the Solution



Business Technology Platform – Key Capabilities

Motivation

Extend

- Extend current cloud and onpremise applications
- Deploy pre-built app extensions
- Leave the core whole (Clean ERP)
- Use intuitive toolsets to accelerate development for extensions

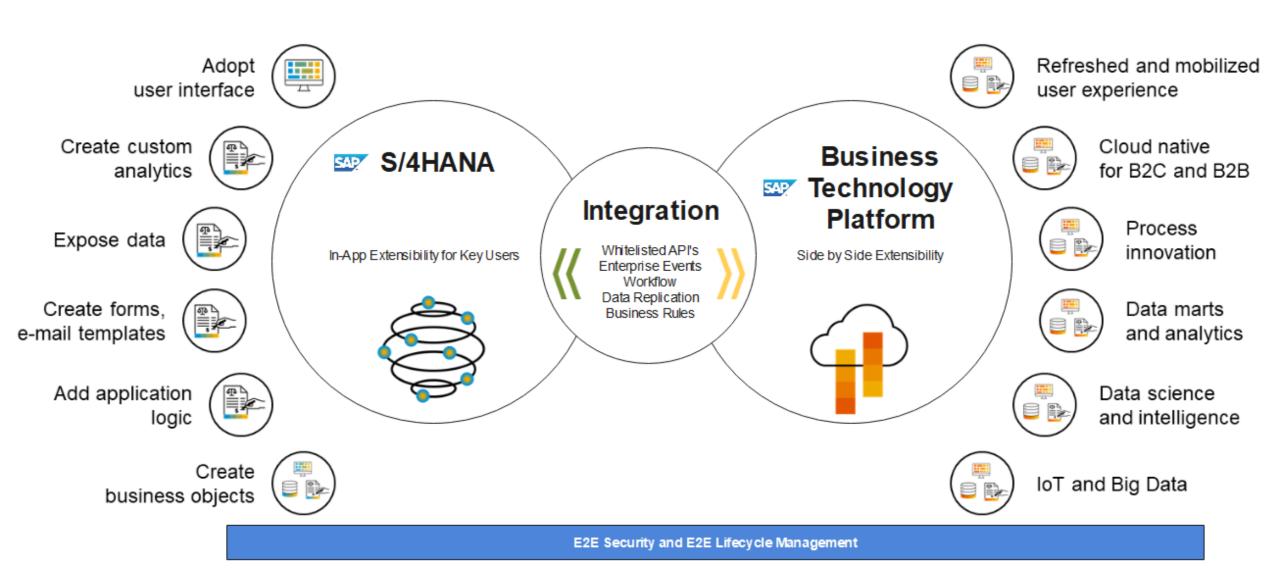
Integrate

- Integrate on-premise and cloud applications
- Connect apps, data and business processes
- Leverage prebuilt API's to accelerate development
- Use business rules, workflow and oData provisioning to interact with on-premise

Innovate

- Build Applications using RAD tools
- Realize value quickly independently of On-Premise activities
- Leverage new technologies IoT, ML, Big Data, bots
- Bring your own language for developer flexibility

Overall Extension Strategy – adhering to Clean when customizations are needed









In App Extensions within S/4HANA

Key Capabilities using the In App Framework:



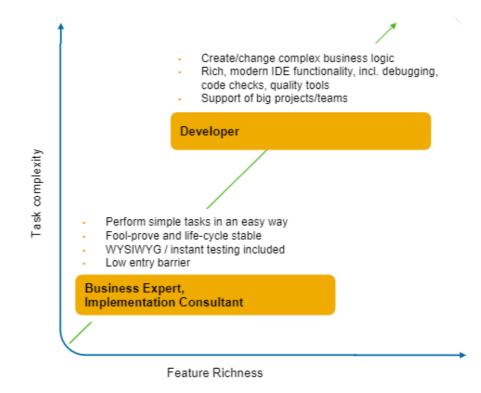
Empowering the Key User

Challenge

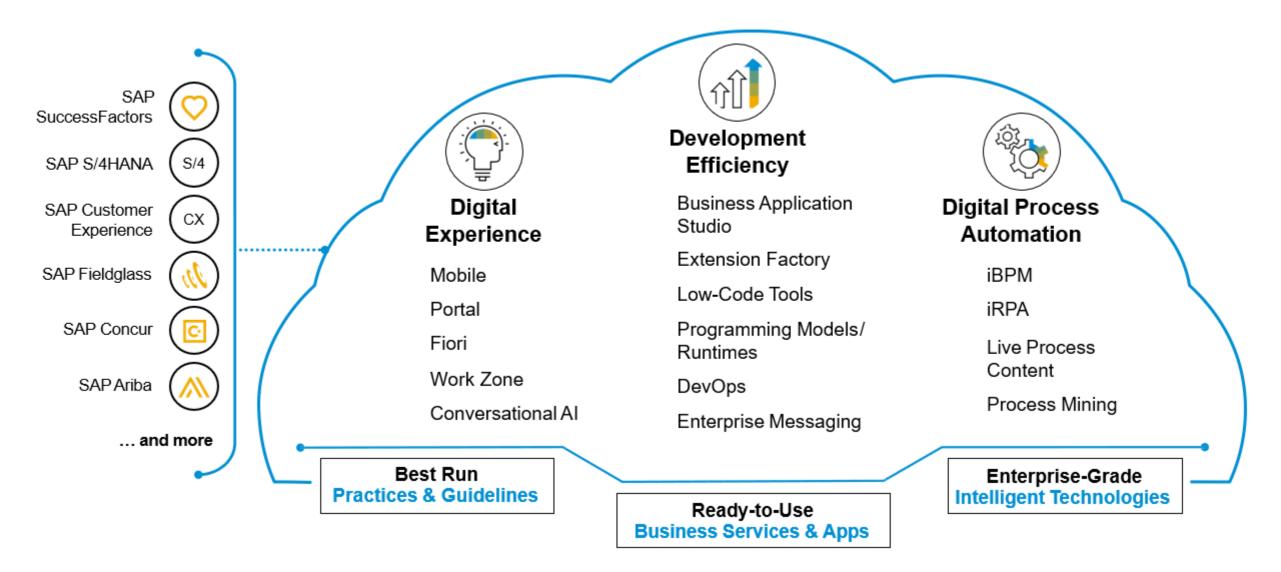
 Line of Business departments drive the implementation of (Cloud / IT) services

Solution

- Extensibility tools are used by in business departments that should easily apply non-disruptive extensibility tasks without risk.
- In particular for:
 - UI Adaptations
 - Custom fields and tables
 - Custom analytics and forms
 - Custom business logic (cloud ABAP Web editor)



Side by Side Extensions using Business Technology Platform (BTP)



Clean ERP Reference Architecture

Use In App and Side by Side Approaches

 Protect the Digital Core for future upgrades

API First Approach

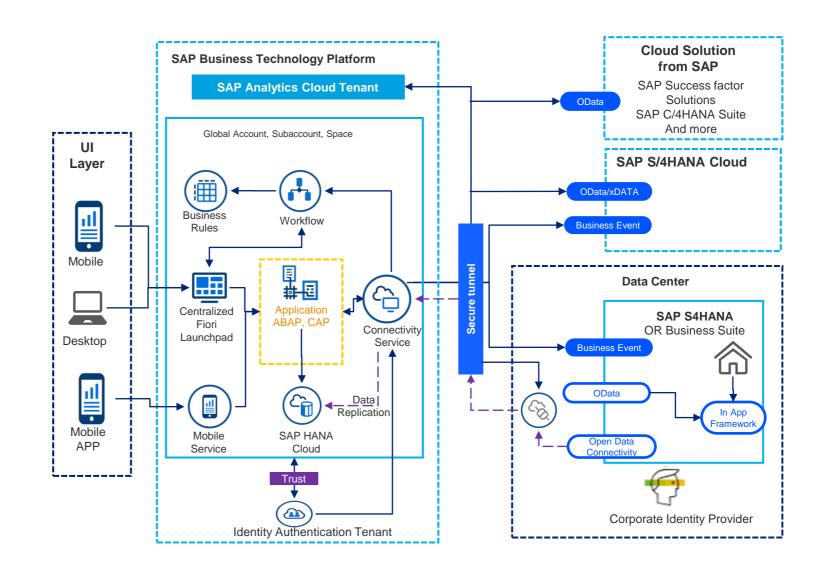
 Use SAP provided API's and Integrations

Simplify the Architecture

 Use Cloud components where possible

Configuration, not coding

 Leverage SAP's In App framework and standard Integration / Extensions before coding



Customer Showcase – Clean ERP



Customer Showcase

Scenario: Consolidation of multiple legacy SAP and non-SAP landscapes into a single global instance of S/4HANA. Desire to adhere to standard and where customizations are needed to follow adherence to a clean core, to enable easier upgrades and agility in the future.

Solution:

Run the program using available In App and Side by Side using BTP Extensibility Suite approaches to ensure ease of upgrades in the future, and the ability to upgrade without downstream impacts due to custom code

Objectives:



Leverage configuration and not coding using both In App as well as rapid application development (RAD) tools in BTP



Use BTP services in the Extension Suite to decouple the extensions from core S/4HANA

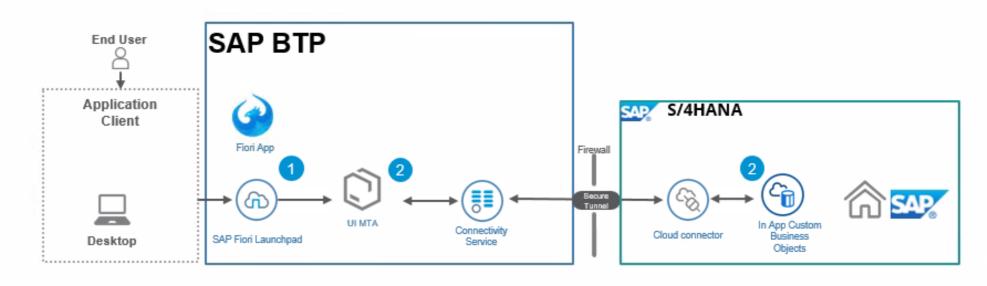


Full DevOps and CI/CD pipelines to automate migration of apps across landscapes and ensuring code quality



Governance Model to ensure that approved extensibility approaches are used in order to keep the Core clean from customizations

Example – Use case with In-App and Side by Side in scope



- A Fiori UX, exposed by the Portal Service as a Launchpad Module, initiates the MTA application
- MTA contains all BTP Cloud services required to expose the Fiori UX to the end user to maintain the CBO in S/4HANA
- Create the tables on SAP S/4 HANA using in-app extensibility (Custom Business Object) and expose them as oDATA API

Governance Components – How do we guide the build teams on adhering to Clean?

Usage of approved Extensibility Approach

Decision Flows to guide the teams on what Extensibility Approach to use

Use of diagrams to show end to end design

Prebuilt Extensibility
Approaches aligned to
SAP's extension
recommendations.
Complete with when to use
/ not use, tutorials and
details for developers to
leverage.

Detailed decision flows – guiding our technical team on when to use what approach. Ensures that the correct Extensibility Approach is used for the gap or requirement.

Use of Diagrams which show how the end-to-end design works, including required components as well as optional add-ons depending on needs.

Best Practices and Lessons Learned



Guiding Principles Achieving Clean ERP

Fit to Standard – Use standard wherever you can

Use In App and Side by Side Approaches

Use whitelisted API & CDS views, no custom oData API's in the Core (i.e. SEGW)

Keep the Core Clean

Only use Cloud Foundry – Neo is being deprecated

Develop innovations on BTP

Use Fiori UI/UX and SAP's Central Fiori Launchpad in BTP

No Classic Extensions (Yellow or Red patterns)

Ensure all standards are updated regularly, as SAP pushes updates frequently

Lessons Learned

- Be Flexible, as SAP pushes new innovations and changes to BTP and the In App framework regularly
- Stay up to date, innovations come quickly, SAP Developer Tutorials and OpenSAP are two great resources at your disposal
- Look at SAP's BTP Discovery Center frequently for new services and major updates to existing services: https://discovery-center.cloud.sap/
- Leverage the trial account for exploration and to see what is possible, this environment also includes beta features

Product Showcase – Overview, UX and Benefits



SAP Work Zone – Digital workplace drives employee engagement Strategy



- Deliver holistic platform to build central entry point for SAP and third-party apps
- Plus more towards digital workplace solution, e.g. workflow with guided experiences, central inbox with task center
- Intranet and business community (B2B/B2C extranet/portal)

- Provide rich integration content to enable industry and line-of-business solutions (by partnering with other SAP product teams, partners and customers): **SAP content** packages
- Store for third-party content packages
- Custom-build content packages to extend based on individual requirements

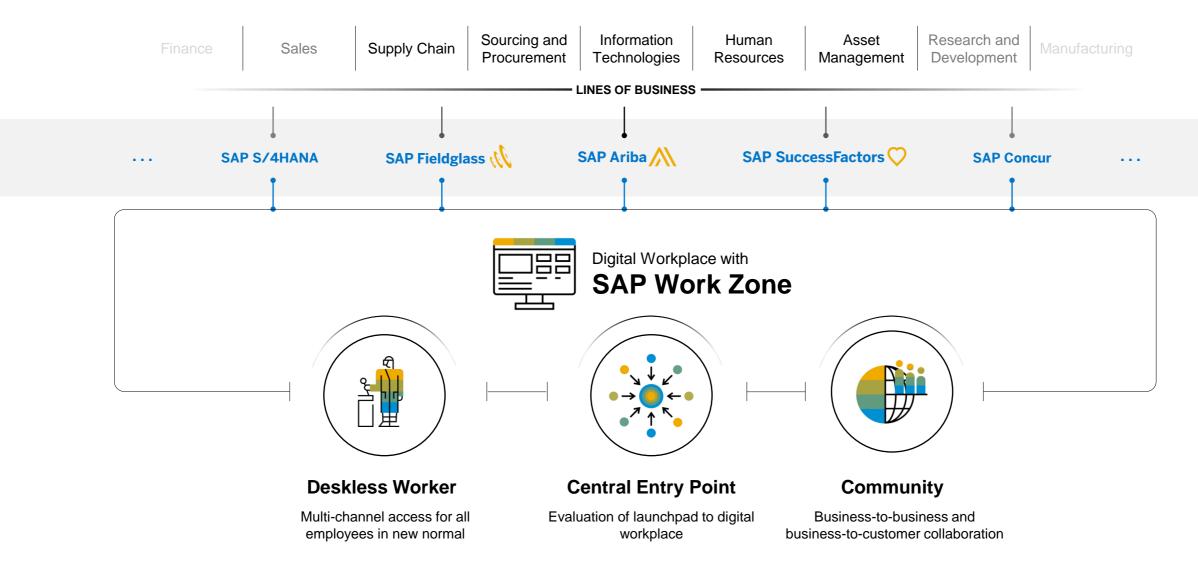
Digital workplace solution is a **new category**, not Portal 2.0 or Jam Collaboration 2.0. SAP Work Zone is not a successor product of Portal or Jam event though it offers a smooth **transition** path. -Analysts see SAP as one of the drivers, for instance leader in MXDP, Multi-experience development platform, Source: SAP Homepage (July 13,2020, link, referring to Gartner study)

members of the organization

(including the deskless worker)

42

Three areas to meet your needs in New Normal



Central Entry Point

- The 'face of the Intelligent Enterprise'



Embedded visual Page Editor



Connected SAP business apps



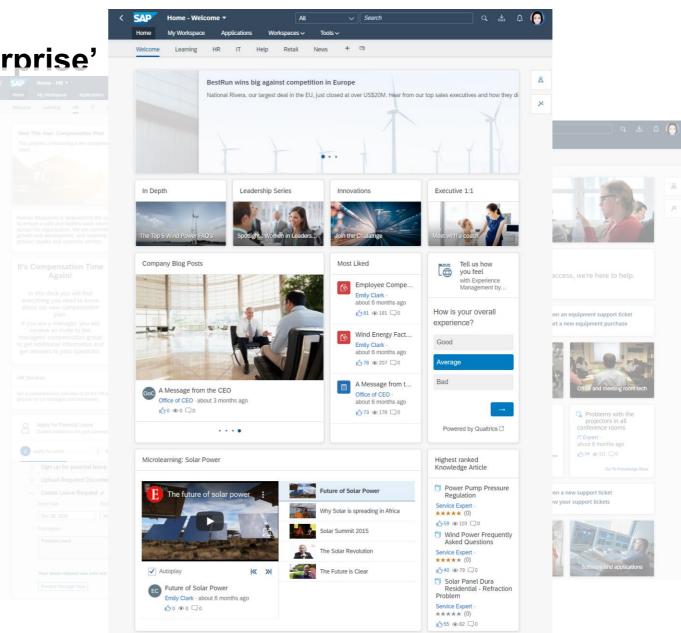
Out-of-box cards and widgets for pages



UI Integration Cards to connect third-party apps



Built-in integration with Conversational Al



Deeper dive...



USER-FOCUSED

Personalized and easy to use with role-based data



ENGAGING

Central entry point for multi-application landscape. Configurable page layout.



CREATE GUIDED WORKFLOW EXPERIENCES

Use a template project to build guiding user experiences on top of workflows



TEAM COLLABORATION

Utilizing Microsoft Teams

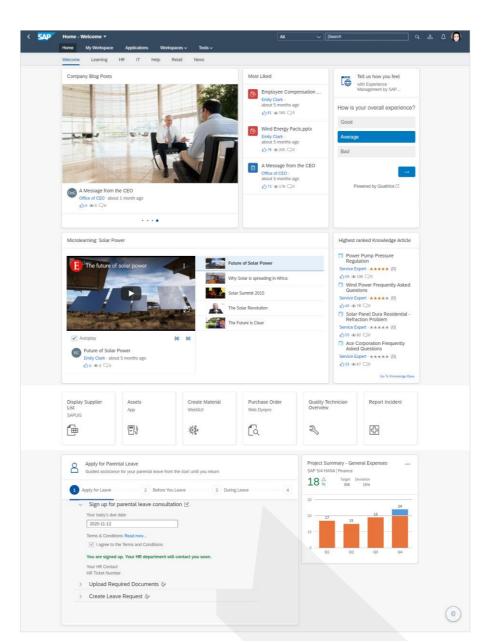




MOBILE READY

Anytime, anywhere access with responsive web and a dedicated mobile app





MY INBOX



Process workflow tasks that matter to you within the integrated My Inbox application

SEARCH



Discover and find information with powerful content and document indexing

INTEGRATE EXPERIENCE MANAGEMENT



Engage, monitor and measure with Qualtrics embedded within the experience

KNOWLEDGE BASE



Create, retain and share knowledge across the entire organization

SAP BUSINESS APPS



Quick access to SAP S/4HANA and other frequently used business apps

UI INTEGRATION CARDS



Embed and display SAP and third-party business data from across your organization

EXTEND AND DEVELOP

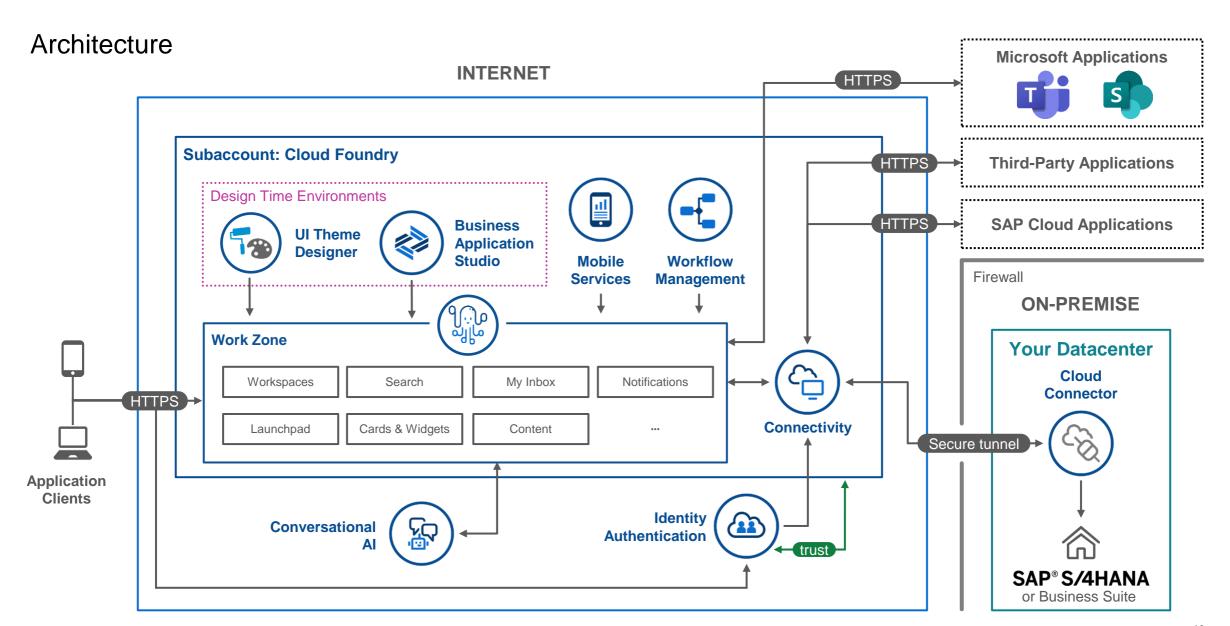


Extend with full IDE based on SAP Business Application Studio

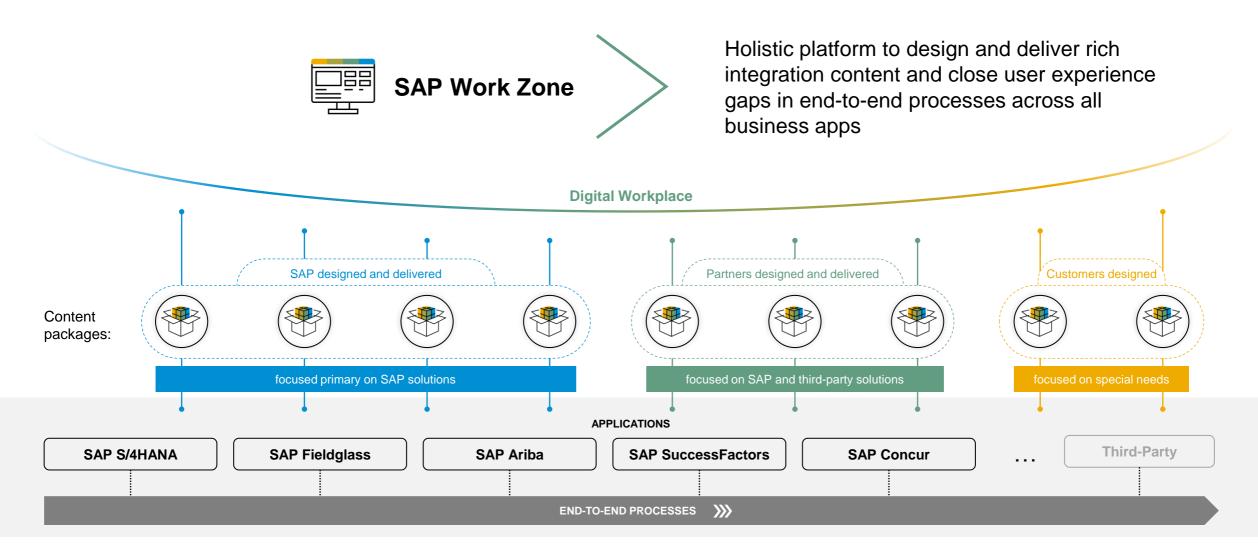
INTEGRATE CONVERSATIONAL AI



Develop and integrate chatbots



Enrich digital workplace experience with Content Packages



Digital Workplace for the Intelligent Enterprise

Customer value

For the user



Personalize the experience



Gain faster access to information



Conduct business anywhere

For line of business



Increase employee engagement



Increase productivity powered by intelligence



Improve business agility

For IT



Provide a unified experience



Deliver an integrated user experience



Extend and customize to your needs



Thank you.

Contact information:

F name L name

Title

Address

Phone number

Deloitte.

