SAPinsider SUMMITSERIES

Technology & Innovation

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Unleash the Diverse Capabilities of SAP BTP to Accelerate Your Transition to SAP S/4HANA Cloud

Anurag Barua
Transformation Leader, SAP America

Speaker Introduction

- ✓ 26 years of SAP experience in a career of 31 years in a variety of roles including SAP product development, delivery/advisory/consulting, pre-sales, & sales; currently work for the SAP S/4HANA Center of Excellence, North America
- ✓ Served nearly 150+ clients globally & across multiple industry verticals including Public Sector, Utilities, Media, Manufacturing, Pharmaceuticals, Oil & Gas, & Hi-tech among others
- ✓ Areas of expertise include SAP Financials, Logistics/Supply Chain, Reporting & Analytics, Data Management & Governance, Cloud technologies, User Experience, & Project/Program Management
- ✓ Prolific thought leader: Published over 100 articles & white papers for SAP publications; written 5 SAP books; spoken at over 200 SAP conferences globally

What We'll Cover

- RISE with SAP & GROW with SAP: An overview
- Activities to prepare for your S/4HANA Cloud journey
- The clean core framework
- How SAP BTP accelerates your cloud journey

RISE with SAP & GROW with SAP: An overview

RISE & GROW - overview

SAP S/4HANA Cloud

GROW with SAP

Ready-to-run finance capabilities with
SAP S/4HANA Cloud Public Edition

RISE with SAP

Tailored-to-fit finance capabilities with
SAP S/4HANA Cloud Private Edition

Add-On Modules

Extend SAP S/4HANA Cloud capabilities to meet any needs.

- Marketing & Commerce
- Sales & Service
- Procurement
- Finance
- Supply Chain
- HR
- IT & Cross-Functional

RISE & GROW - differences

GROW WITH SAP

SAP S/4HANA Cloud Public Edition
is a ready-to-run cloud ERP that delivers the latest industry best practices and continuous innovation

- Run on the industry standard
- Accelerate business growth
- Keep innovation moving

Customer Journey

Implement a ready-to-run cloud ERP that delivers the latest industry best practices and continuous innovation

RISE WITH SAP

SAP S/4HANA Cloud Private Edition
is a tailored-to-fit cloud ERP that adapts to your organization's unique transformation

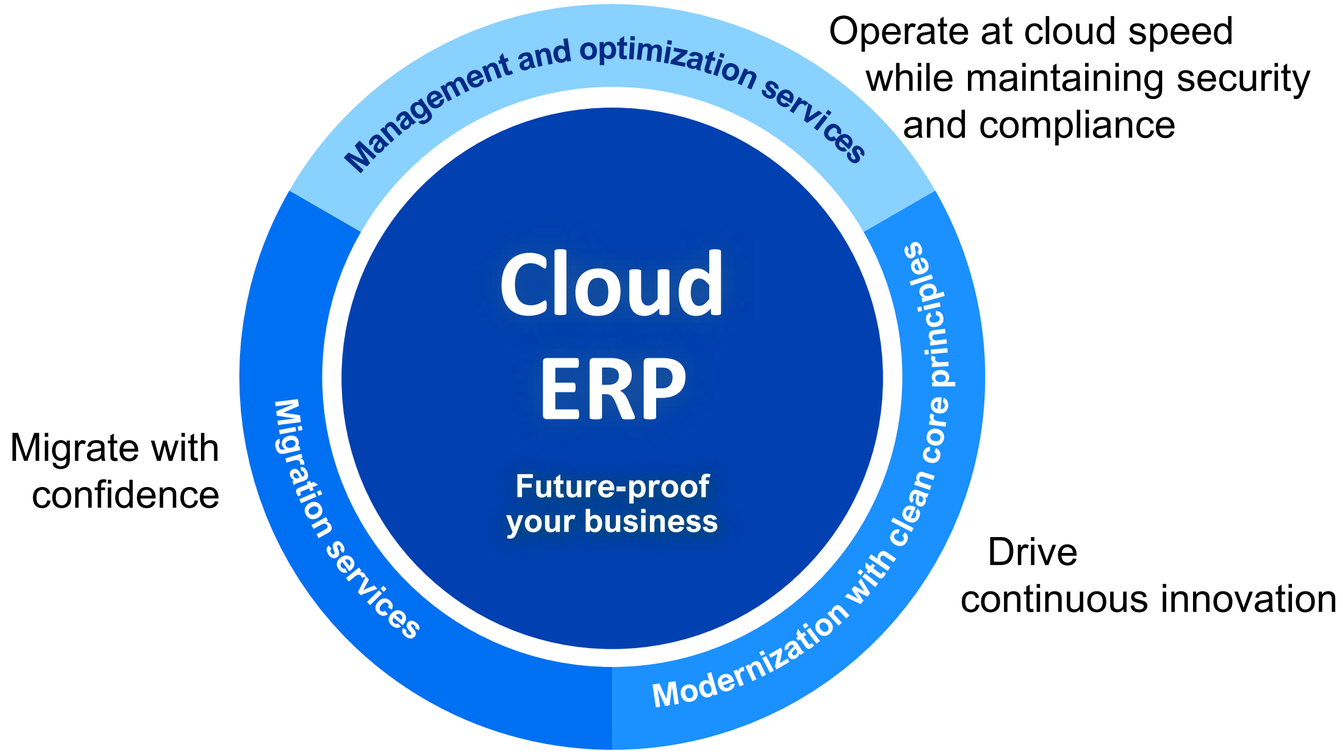
- Run on your own standard
- Modernize your business
- Keep the control

Customer Journey

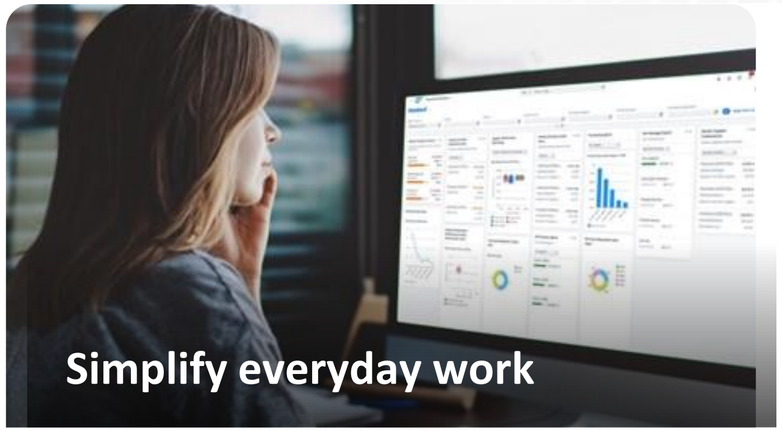
Migrate installed base customers to cloud by leveraging their existing solution, with a tailored-to-fit cloud ERP that adapts to their unique transformation.

RISE – high level overview

- ✓ The RISE with SAP offering includes an AI-enabled Cloud ERP that's managed and optimized by SAP
- ✓ It provides services and tools built on the SAP clean core principles so you can migrate on-prem systems, transform business processes, drive continuous innovation, and unlock cloud agility.

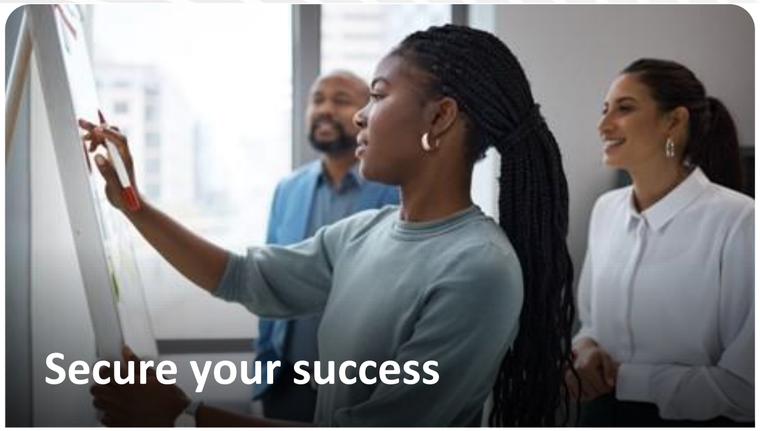


GROW – high level overview



- Optimized user experience
- Embedded collaboration
- Automation with AI

- Full-featured ERP Suite
- New business models
- Global expansion
- Organizational agility



- Cloud native best practices
- Accelerate go live
- Extend and integrate
- Run with confidence

Activities to prepare for your S/4HANA Cloud journey

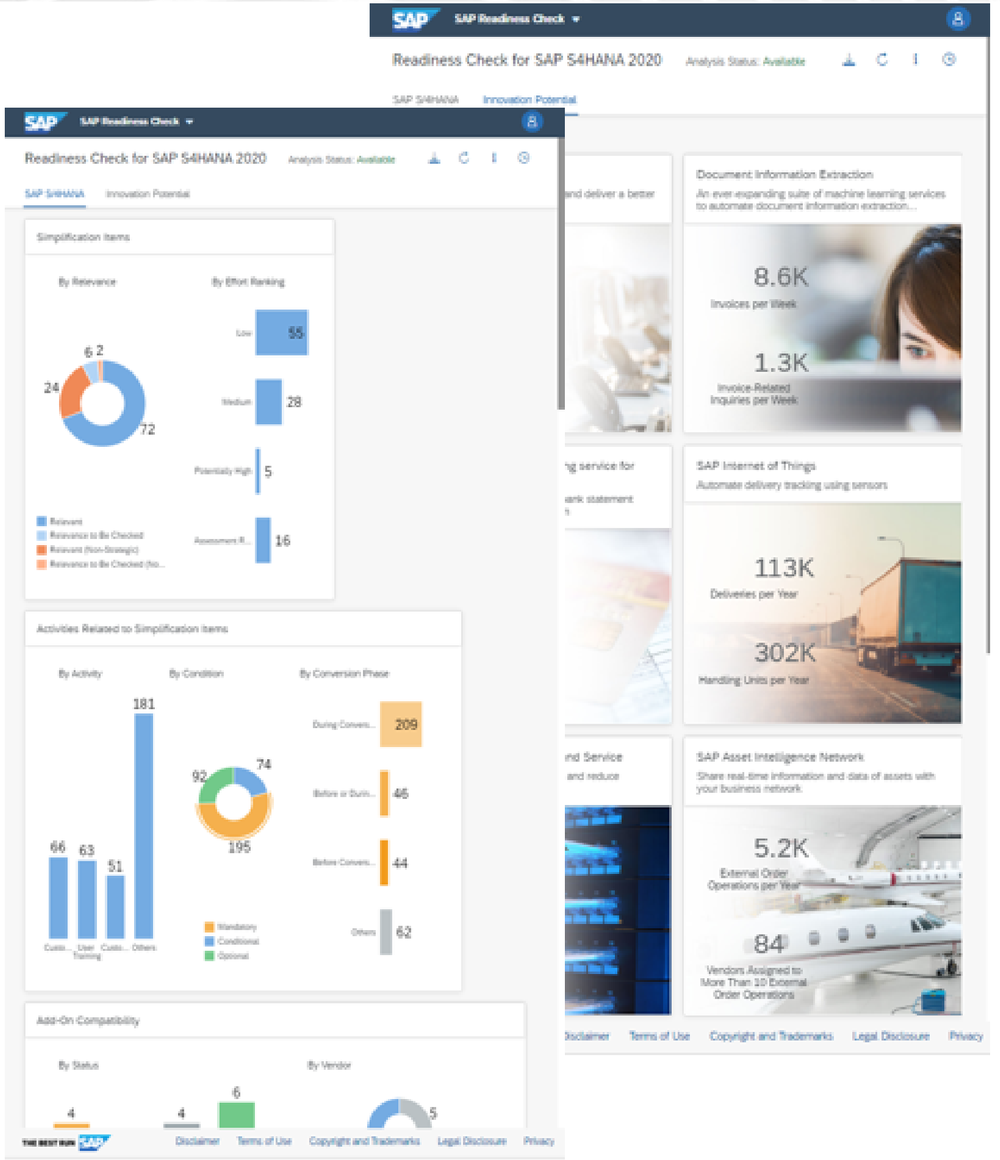
Readiness Check for S/4HANA

As you prepare your SAP S/4HANA transition project, it is critical to understand both the **technical and functional considerations** that can influence the project scope and duration.

SAP Readiness Check for SAP S/4HANA provides customers with the **analysis tools and an interactive dashboard** to evaluate an existing SAP ERP system in preparation for the transition to SAP S/4HANA.

Have you ever wondered…

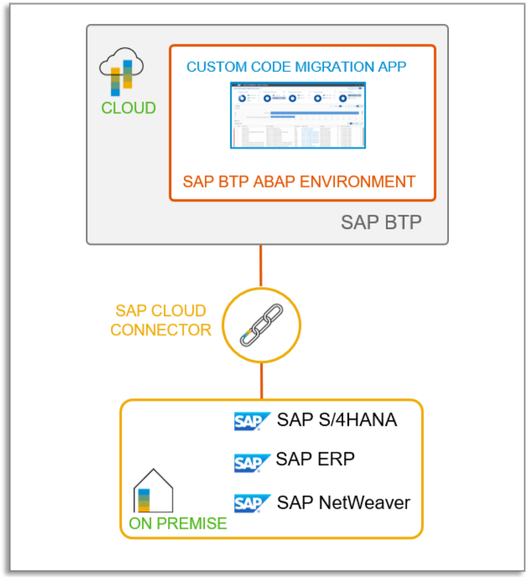
- Which **SAP S/4HANA simplification items** are relevant for you?
- Which **project activities** are behind each simplification item and how high is the effort?
- Will my **custom code** work with SAP S/4HANA, and if not, what do I do?
- Are my **add-ons** and **business functions** compatible with SAP S/4HANA?



Custom code analysis with Custom Code Migration app

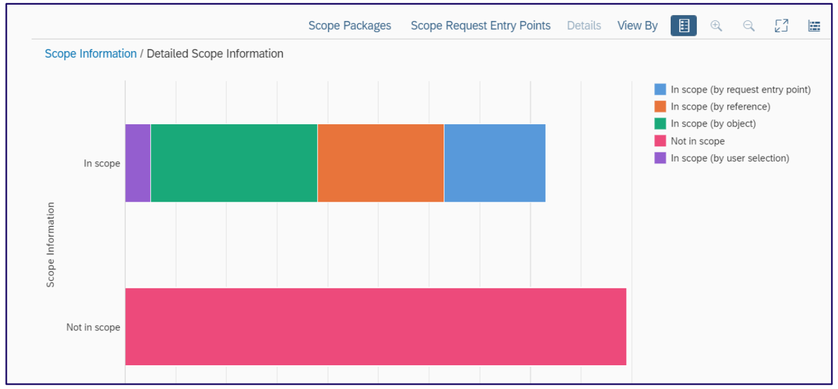
SOLUTION OVERVIEW

- Available in an SAP S/4HANA >=1809 system or in SAP BTP ABAP Environment
- Technically based on remote ABAP test cockpit
- Analysis of custom code for SAP S/4HANA, SAP BTP, ABAP Cloud, classic ATC use cases
- Simplified custom code remediation
- Obsolete custom code removal based on usage data
- Identification of custom code candidates for back-to-standard and redesign
- Evaluation of custom code for semi-automated adaptation (quick fixes in ABAP development tools for Eclipse)

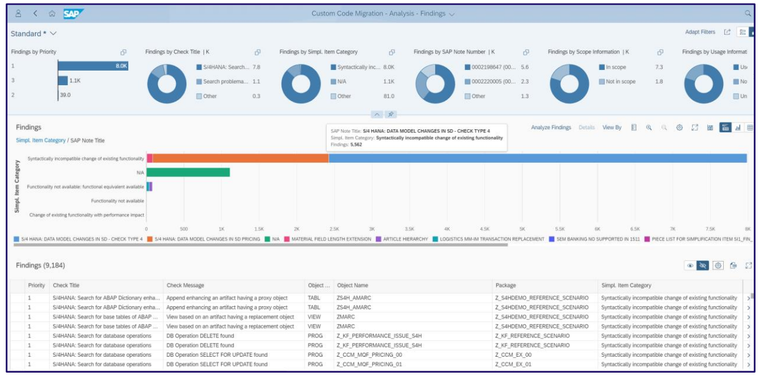


HIGH LEVEL FEATURES

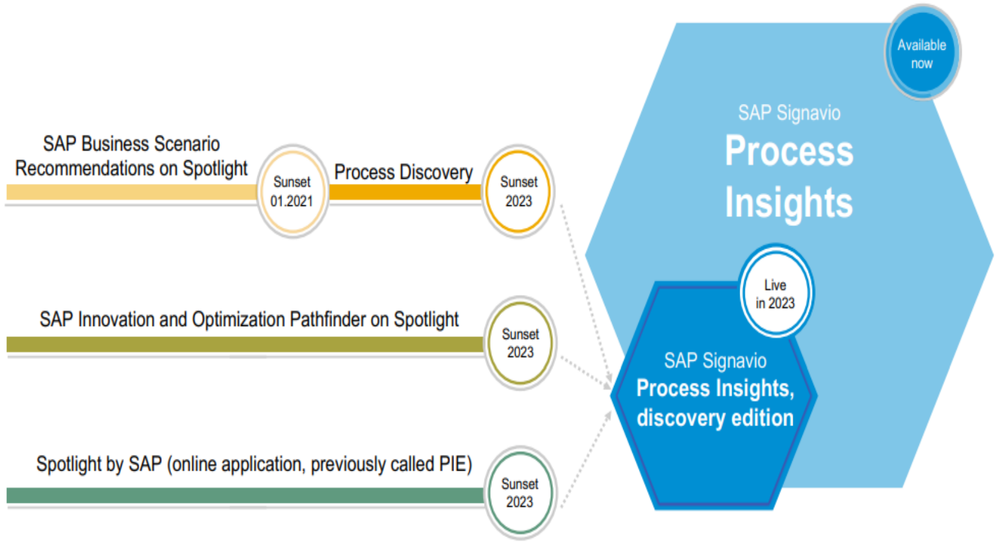
SCOPING



ANALYSIS

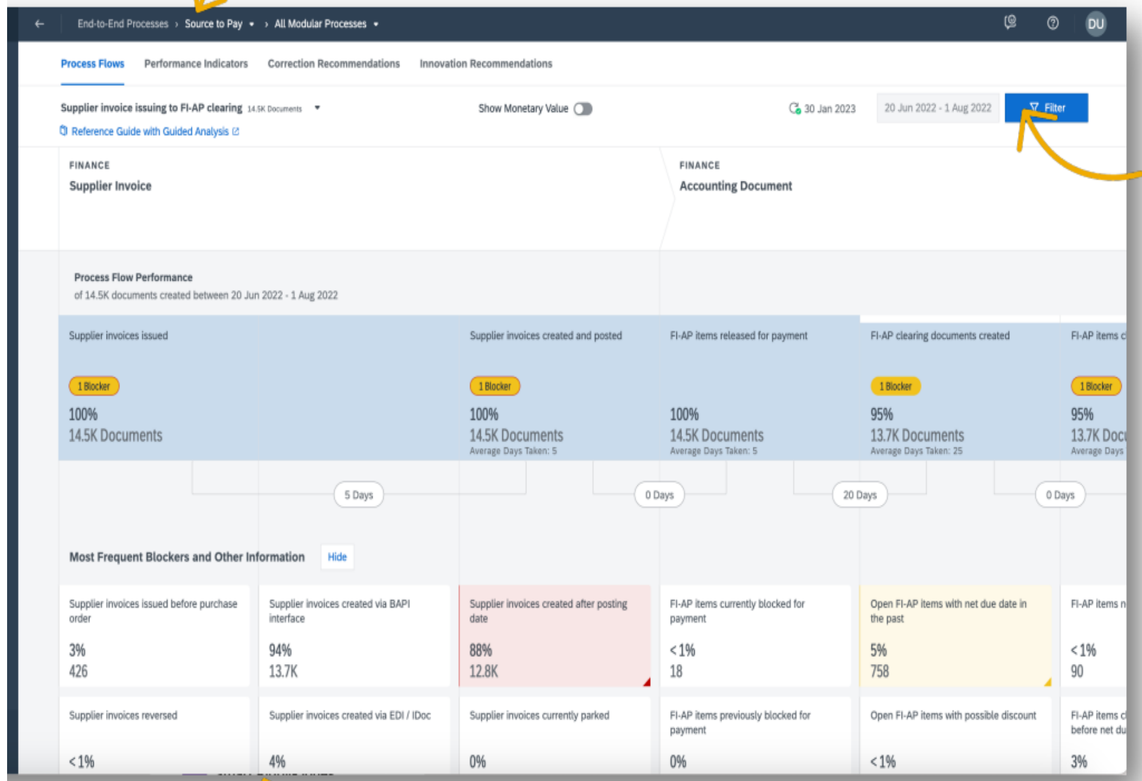


SAP Signavio Process Insights, Discovery Edition



Signavio Process Insights helps analyze and visualize business processes through process mining to identify opportunities for process optimization at a tactical level and enable you to assess where you need to start you transformation journey to S/4HANA

Root cause analysis and detailed information about indicators of performance of your processes



Filtering capabilities

+ Detailed list of documents

Blockers and typical process break points (for one process flow)

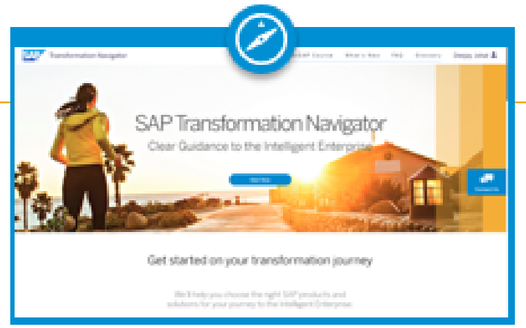
SAP Transformation Navigator

CUSTOMER INPUTS

Current product list
Pre-filled from support profile

Business needs
Selected from capability catalog

IT-strategy
Prompted decision points, such as cloud preference



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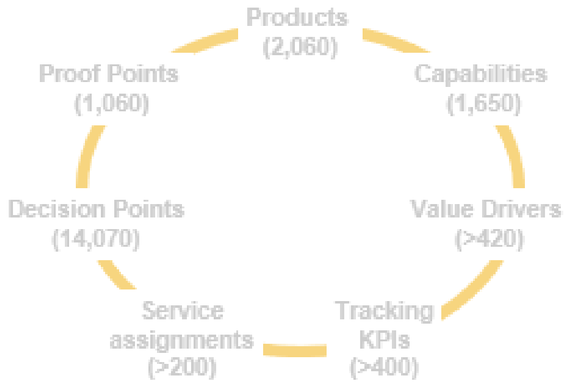


TOOL OUTPUTS

Business guide – why?

- Value drivers
- Aspiration ranges
- Tracking KPIs

Technical guide – what?

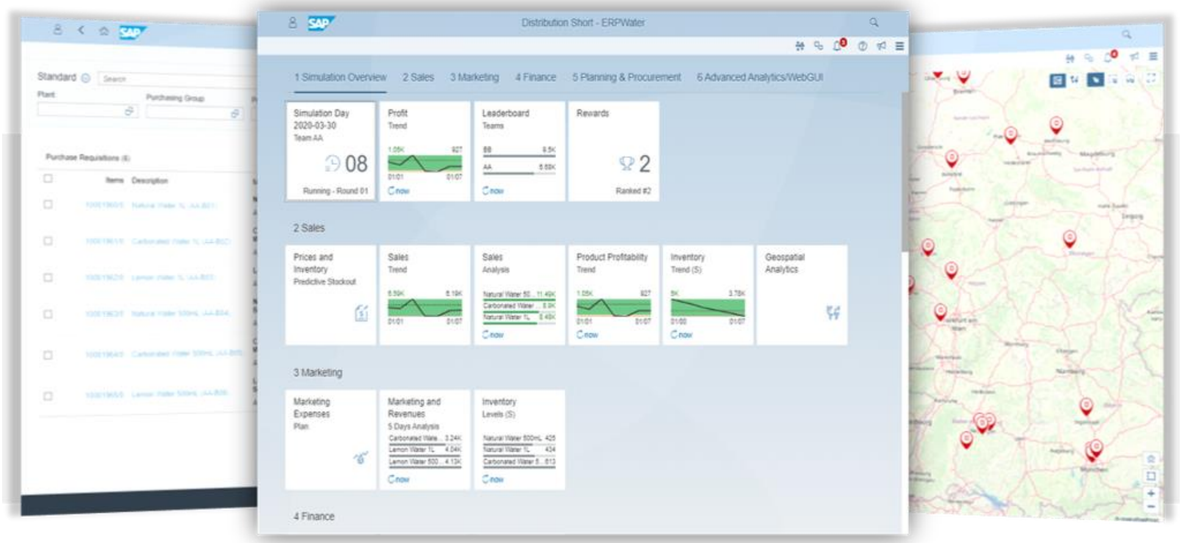
- Industry reference map
- Product recommendations
- Decision points

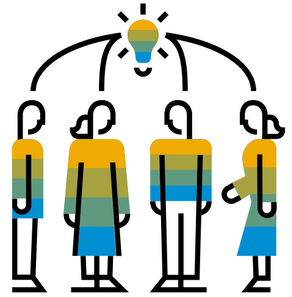
Transformation guide – how?

- Transition types
- License policies
- Services

SAP S/4HANA Simulation - ERPSim

ERPsim™ by BATON SIMULATIONS





SIMULATION ENGINE

1. Customer and supplier behavior algorithms
2. Simplification of administrative tasks (iRPA)
3. Time acceleration

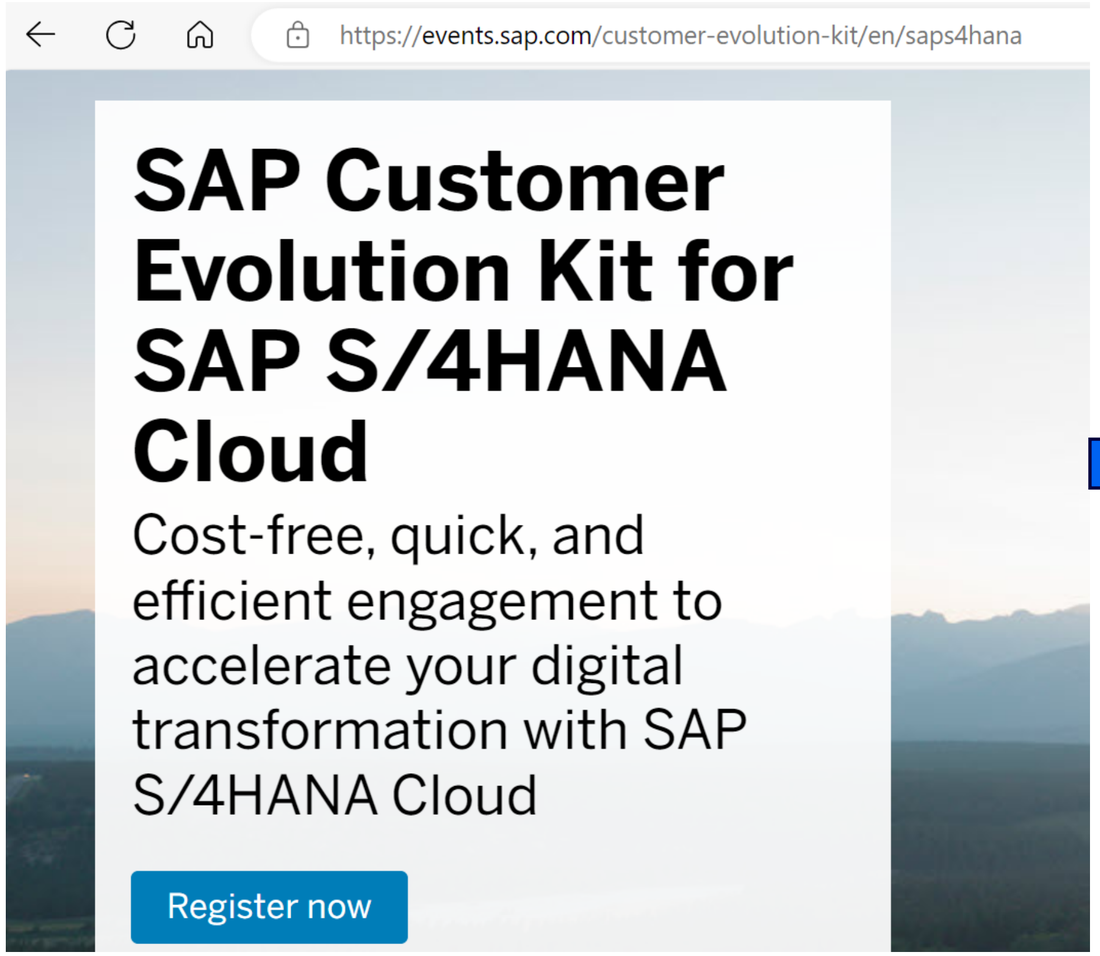
SAP S/4HANA

SAP Business Technology Platform

PARTICIPANTS ROLE

1. Business decisions
2. Business analytics
3. End-to-end process collaboration

Customer Evolution Toolkit



Take advantage of this free service, today!

The clean core framework

What is clean core?

CLEAN

Clean means **up-to-date, transparent, unmodified, consistent, efficient**, and **cloud compliant.**

+

CORE

The core describes the main aspects of an ERP system landscape, namely **extensibility, processes, data, integration, and operation**. Capabilities of the core depend on the implemented software stack.

Why do we need a clean core?

Process complexity

*Companies must have a **flexible infrastructure** that allows them to quickly **adapt their business models** as needed. This means being able to **rapidly adjust** key applications to meet changing market demands and customer needs.*

New technologies

*To succeed in the digital age, organizations need to embrace **new capabilities**. This includes **accelerating innovation**, optimizing and automating processes, and fostering agility in order to **gain a competitive edge**.*

Business change

*In today's **fast-paced and ever-changing business environment**, disruption across global supply chains, customer preferences, and the workforce has become a common occurrence. **Businesses must quickly adapt** to these changing requirements to remain relevant and thrive.*

The heavy burden of technical debt

Technical Debt can add up to 20-40% of the value of customers entire technology outlays

Historically, IT Upgrades have been costly exercises due to the amount of complexity associated with the amount of customizations (custom business processes, custom IT extensions) – referred to as "technical debt".

Technical debt becomes a blocker for customers in realizing future cost savings and innovations by requiring specialist resources to maintain/develop and increase overall IT upgrade durations.

Adopting Clean Core principles allows Customers to "re-visit" technical debt and find cost reductions

Reducing TCO associated with S/4HANA Upgrades

- ✓ **Systems that leverage "Clean Core" principles can be upgraded quicker** vs. systems with high levels of Classic Extensions & complex processes – allowing upgrades to become "non-events".
- ✓ **Upgrades require fewer specialist IT resources** (e.g. Technical developers) to support in testing & remediation due to lower complexity reducing overall cost of upgrade.
- ✓ **Minimal business / LoB involvement required during upgrades** to re-validate business processes.

Benefit from OPEX savings related to S/4HANA maintenance

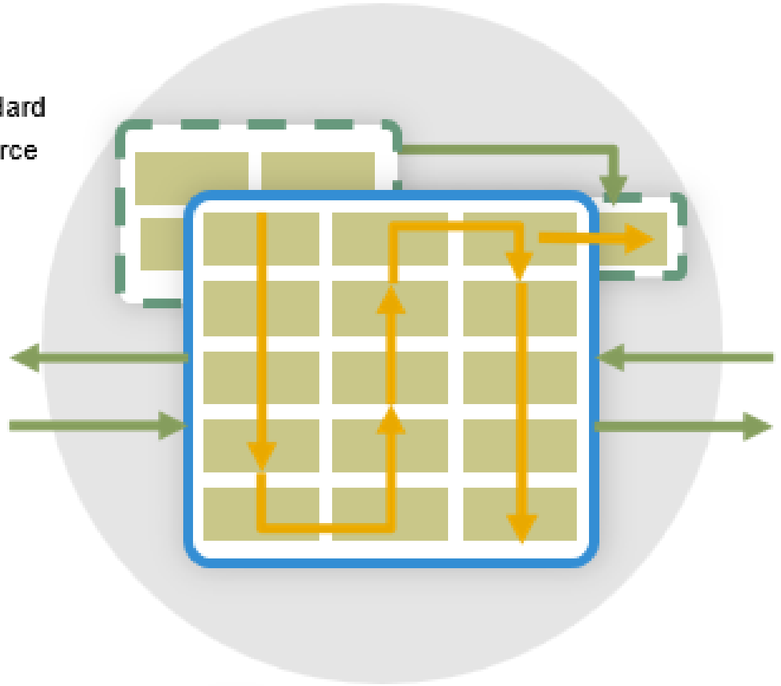
- ✓ Clean Core principles provide a more stable Extensibility experience, this helps **reduce day-to-day IT maintenance** associated to Classic Extensions and unused objects ("technical debt").
- ✓ Extensions are performed on SAP "released" objects – providing **higher level of stability vs. bespoke development** helping decrease overall IT / Vendor support needed

Realize Potential Partner Cost Saving

- ✓ **Service partners are able to leverage commodity skillsets in the market** (associated to Cloud technologies) vs. highly specialised resources – allowing opportunities for **potential cost savings to be past onto Customers.**
- ✓ Cloud Technology skillset is more widely available in the ecosystem, this **provides customers with more choice on IT Service Partners** – offering opportunities for greater cost savings.

Deconstructing the clean core

Illustrative Model - Components of The Core



Software Stack

The versions of the foundational standard software in use; e.g., enterprise resource planning (ERP), database, etc.

Operations

Governance responsible for managing infrastructure, upgrade decisions, extension decisions, and system monitoring and maintenance activities

Extensibility

Functionality added to standard software which extends it to address organizational needs that are not met by standard

Data

Three types of information in the system:

Configuration data: a set of static objects that define the organization's structure (e.g., company codes, controlling areas)

Master data: a set of identified and attributes (e.g., customers, products)

Transactional data: information recorded during usage of your system (e.g. a sale, a purchase)

Integrations

Communication between extensions and standard solution as well as communication between solutions

Processes

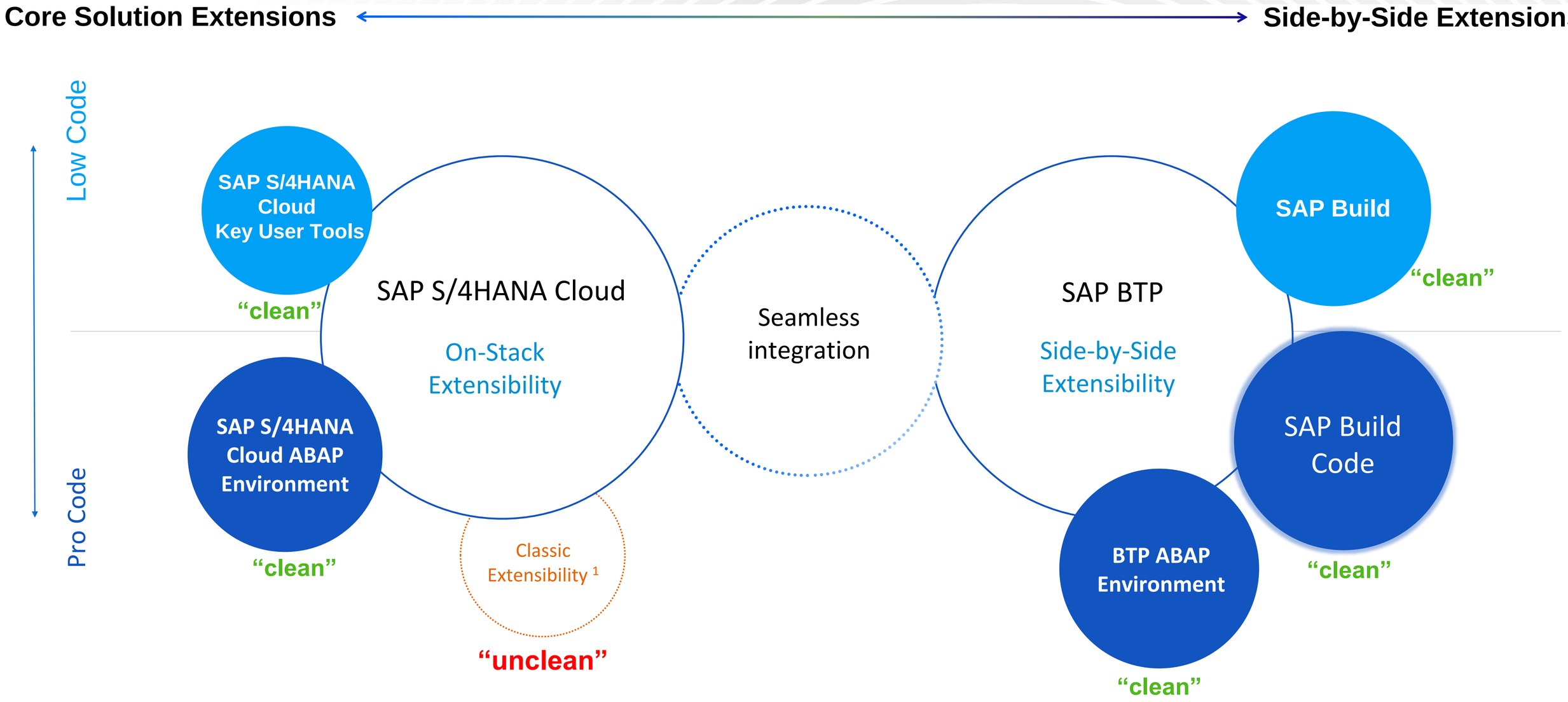
The series of actions or steps taken within your system that cover the end-to-end (E2E) experience of delivering an outcome

Steps for achieving a clean core

Element of the Core	Criteria for Clean Core
Software Stack	• Software version close to the latest release • Software version close to the latest Feature Pack Stack (FPS) and Support Pack Stack (SPS) • Partner solutions clean core compliant
Extensibility	• Upgrade-stable extensions following prescribed extensibility model • Only actively-used and well-documented extensions • Adherence to general code quality standards and best practices • No duplication of SAP standard functionality
Integrations	• Upgrade stable interfaces • Proper monitoring and error resolution capabilities • Only actively-used and well-documented integration
Data	• Complete • Correct • Used and relevant
Processes	• No inconsistent or inefficient processes • Leveraging SAP recommended Best Practices
Operations	• Day-to-day operations are planned and executed regularly to maintain alignment with the above-mentioned guidelines (e.g., security authorizations, integrations, data, etc.) • Opt-in on lifecycle events such as periodic upgrades • Compliance with pre-approved maintenance windows

How SAP BTP accelerates your cloud journey

Clean Core Extensibility Options for SAP S/4HANA



[1] SAP S/4HANA Cloud Private Edition and on premise only; **not** "clean core"

BTP components

Secure and compliant
Open and flexible
Unified and simple

Broad ecosystem
Enterprise grade and scalable
Business centric

Business Technology Platform

App Dev	Automation	Integration	Data and Analytics	AI
➔ Visual low-code/ no-code experience	➔ Workflow management	➔ Process integration	➔ Analytics and planning	➔ Pretrained AI models
➔ Pro-code tooling	➔ Robotic process automation	➔ API-led integration	➔ Data management	➔ Generative AI and AI workload management
➔ Digital experience	➔ Process monitoring and analytics	➔ Event-driven integration	➔ Operational database	➔ Business data and context
➔ DevOps	➔ Automated document processing	➔ Hybrid integration	➔ Data warehouse and data lake	➔ Responsible AI
		➔ B2B integration		
		➔ Data integration		

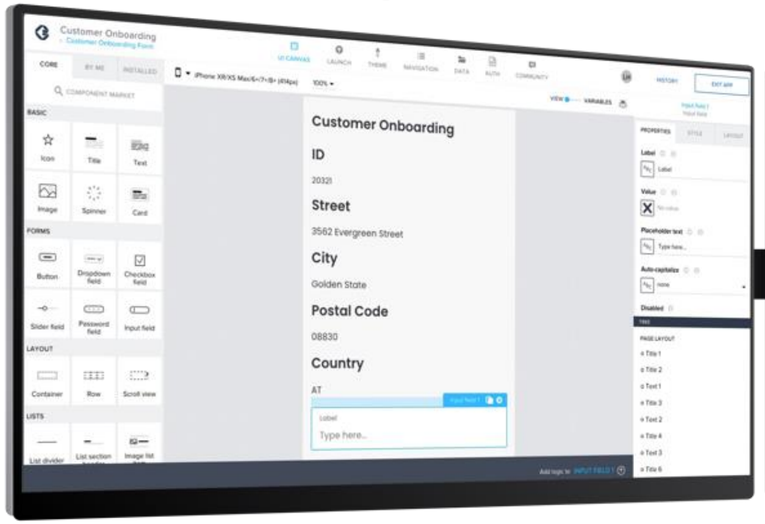
- Simplified and guided development
- Smooth extensibility of SAP solutions
- Generative AI for development
- Interoperability
- More secure and trusted integration
- Fusion development

SAP Build solutions

Create enterprise apps, automate processes, and design business sites with drag-and-drop simplicity

Create apps

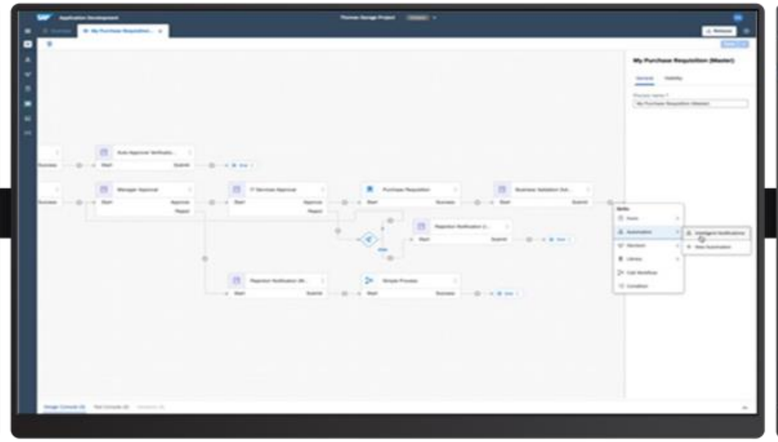
Create **enterprise applications** without writing code



SAP Build Apps

Automate processes

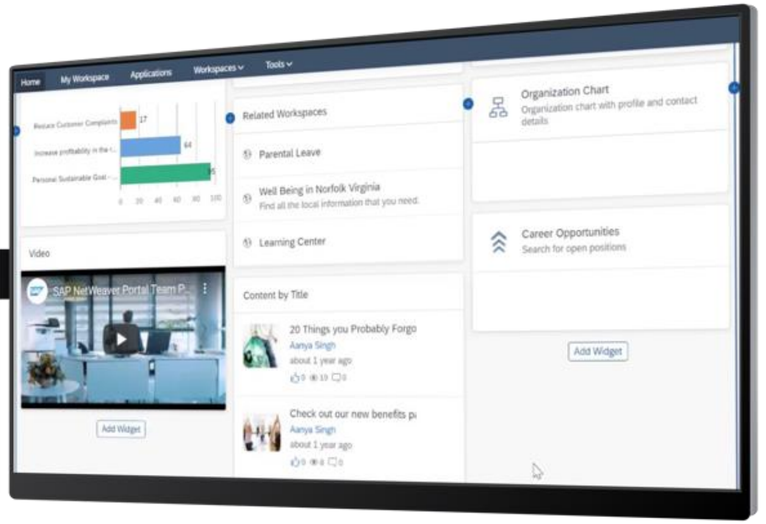
Automate **processes and tasks** with simple drag-and-drop and AI capabilities



SAP Build Process Automation

Design business sites

Design engaging **business sites** to get work done quickly across your enterprise applications



SAP Build Work Zone

Build visually

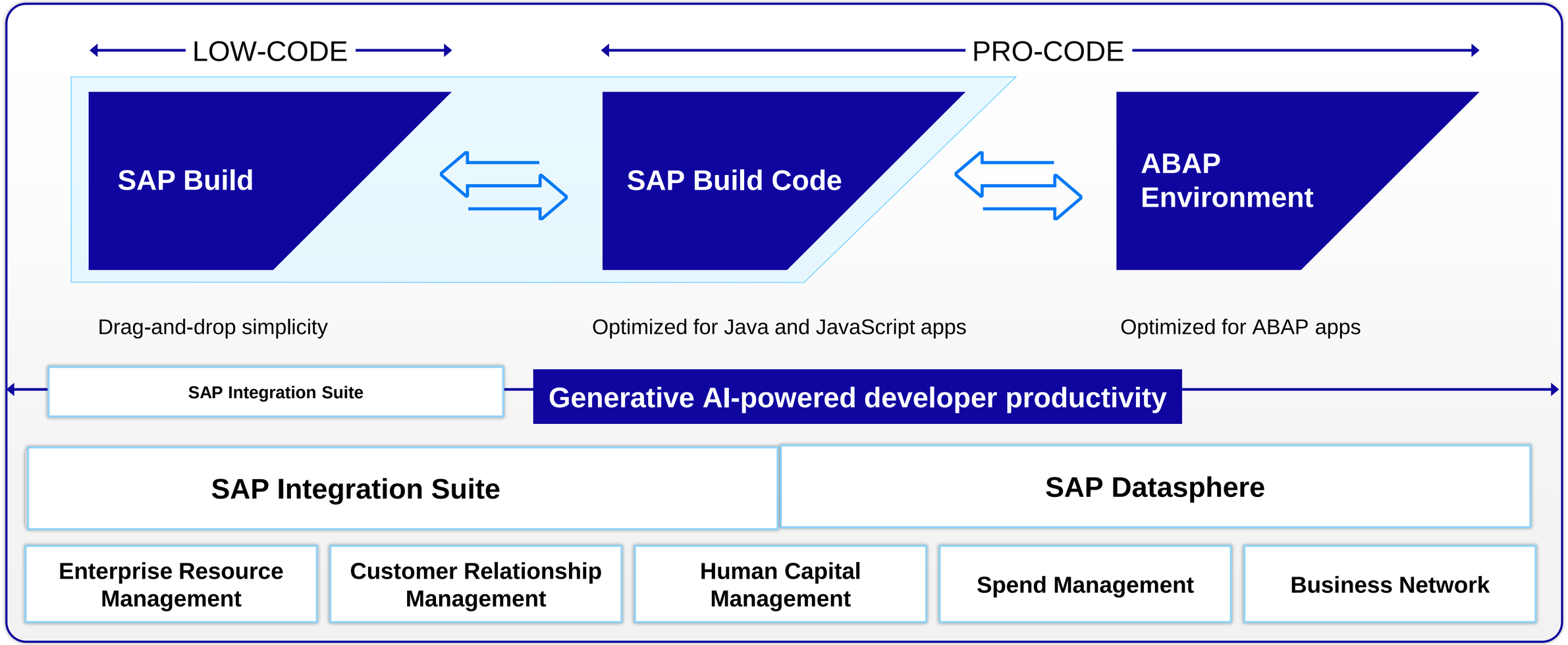
Integrate smoothly

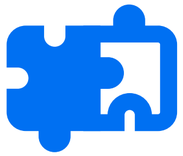
Collaborate effectively

SAP Business Technology Platform

SAP Build solutions

Integrated solutions enabled by generative AI





Extend SAP solutions

Build SAP Fiori apps with SAPUI5 and elements from SAP Fiori

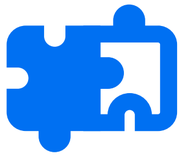
Build cross-platform mobile apps

Generative AI-based code development with Joule Cockpit

Develop applications native to SAP HANA

Build multitenant, SaaS applications

SAP BTP ABAP environment
Develop & run ABAP Cloud apps and extensions



Extend SAP applications using side-by-side approach

Create OData-based SAP Fiori applications

Simplified onboarding and role-based access

Accelerate cloud transformation

Keep the core clean

Analyze ABAP code with advanced custom code migration tools

SAP Build Apps - introduction

Build full-stack enterprise-apps in minutes - absolutely zero coding required

Drag-and-drop the user interface

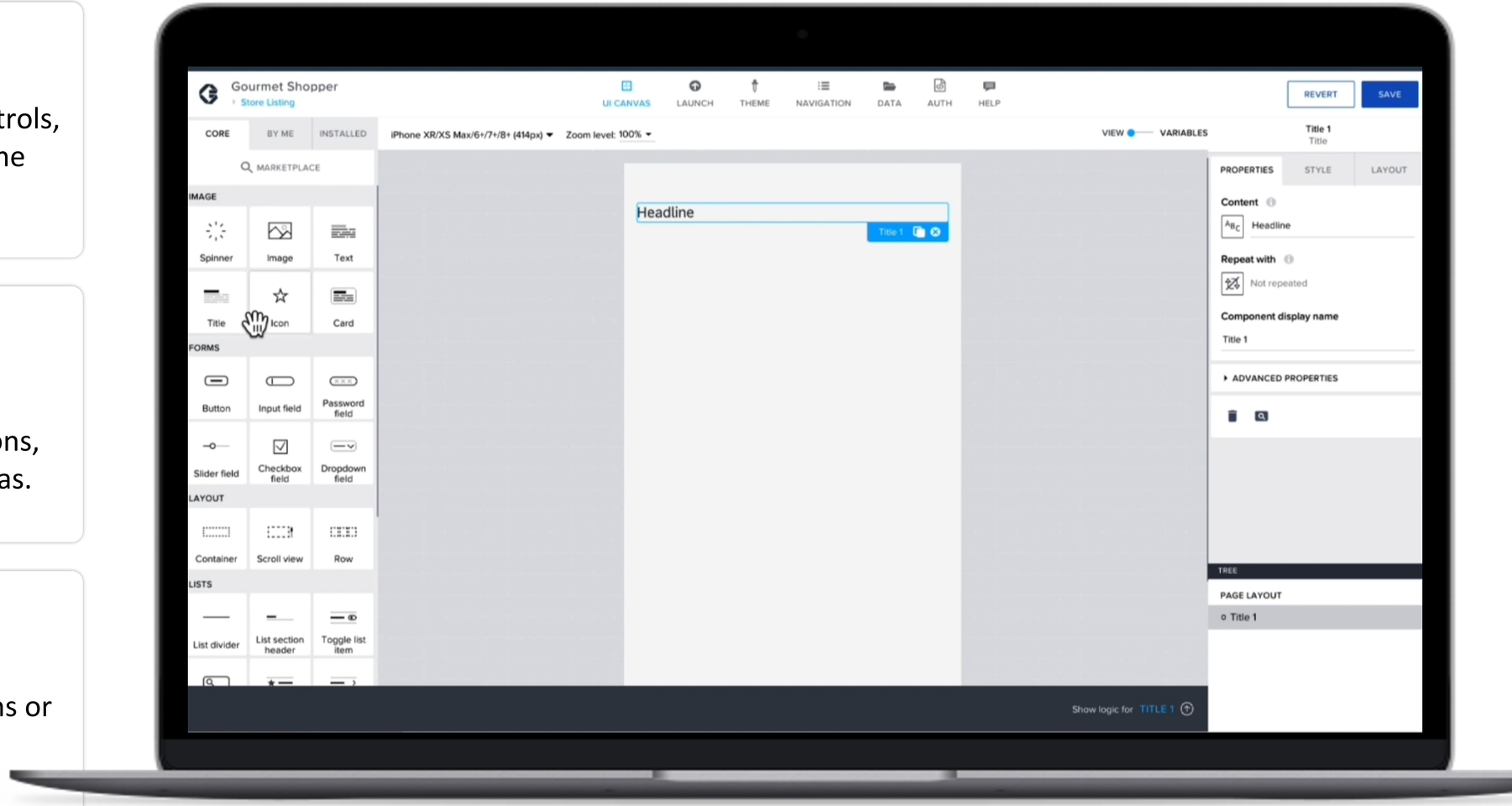
Access a pallet of user interface controls, drag them into place, and preview the final result in real time.

Create any logic without code

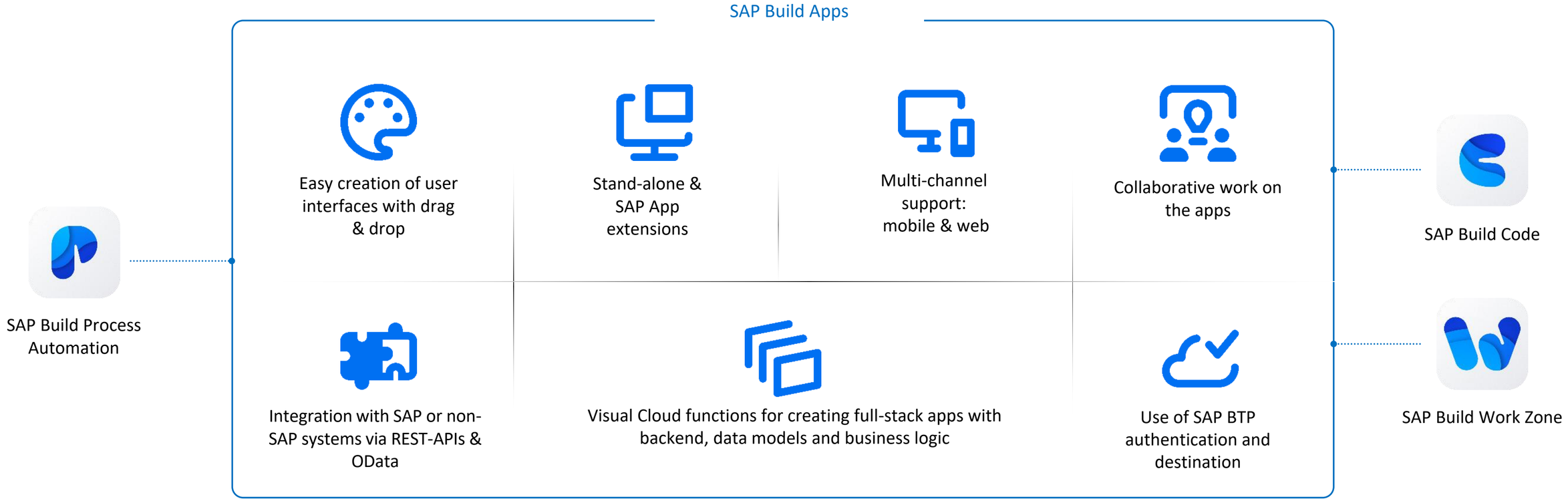
Drag-and-drop any logic function – sensors, file operations, data functions, animations, and more – onto a canvas.

Easily integrate data

Easily add your own data integrations or get started with some of ours.



Features of Build Apps



Who is Build Apps for?

Professional Developer

- Design, develop, deploy, test, handover to production
- Can write the code to develop a complex app
- Understands concepts of development lifecycle, testing, versioning
- Aware of permissions and roles

Citizen Developer

- Design, develop, deploy, test, handover to production
- Can imagine, create, and publish low-code apps/processes with close links to business contexts
- Understand business processes to be improved

IT Admin

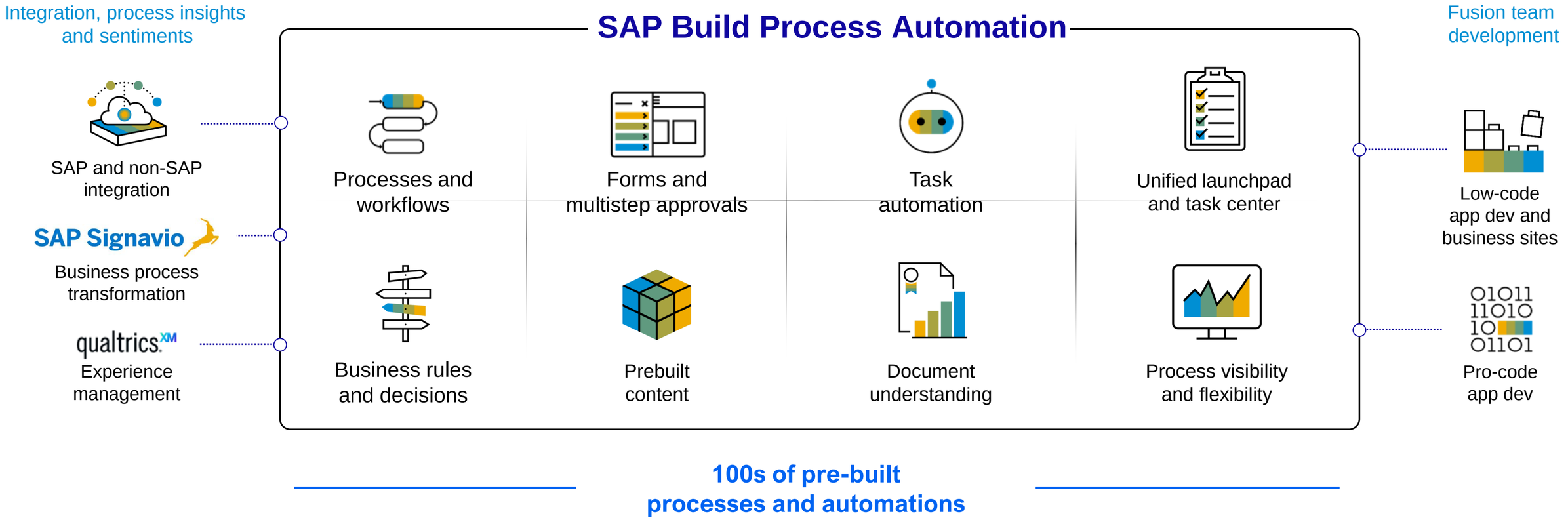
- Governance, operations, upgrades, technical monitoring, control
- Checks processes/apps
- Publishes, coordinates overall process to get assets into productive environments
- Manages the lifecycle of business applications and processes

End User

- Consumes / uses apps and processes but does not create them
- Anyone who is consuming information, using an app or automation, and managing their individual personalization of the tooling

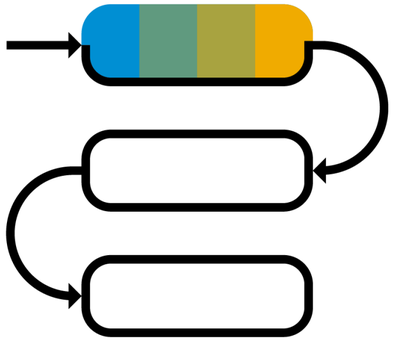
SAP Build Process Automation

Automate tasks & processes & with drag-and-drop-simplicity



Build Process Automation

A simpler and faster way to automate business processes

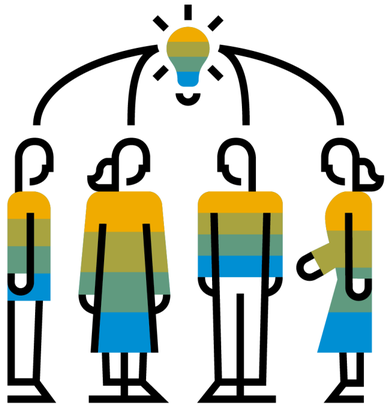


Automate visually

Simplify automation with drag-and-drop and AI capabilities

Integrate seamlessly

Automate faster using pre-built workflows, bots and connectors for SAP and non-SAP systems



Collaborate securely

Enable fusion team development in a secure and agile fashion

Wrap-up

Where to Find More Information

https://pages.community.sap.com/topics/business-technology-platform/building-extensions

- SAP Community site on building extensions with SAP BTP

https://learning.sap.com/learning-journeys/build-side-by-side-extensions-on-sap-btp

- Free SAP Learning (formerly openSAP) e-learning course on creating side-by-side extensions with BTP on

https://community.sap.com/t5/technology-blogs-by-sap/10-ways-to-reshape-your-sap-landscape-with-sap-business-technology-platform/ba-p/13652132

- SAP blog on the clean core

https://learning.sap.com/learning-journeys/practicing-clean-core-extensibility-for-sap-s-4hana-cloud/validating-clean-core-workstreams_f7022a5b-f184-44f4-b57c-8554313b1d62

- Clean core chapter from free SAP Learning course on clear course approach

https://sdmp-prod-prod-bpi-sdmp-app.cfapps.eu20-001.hana.ondemand.com/create-request/create-request.html

- SAP website for Signavio Process Insights, Discovery Edition

https://pages.community.sap.com/topics/build-apps

- SAP Build Community

Key Points to Take Home

- SAP provides two paths to your cloud transformation to S/4HANA Cloud – GROW with SAP & RISE with SAP
- SAP provides many applications to help companies determine what their transformation journey could look like based on where they currently are using SAP Readiness Check, Transformation Navigator, Signavio Process Insights etc.
- Customers have incurred technical debt which places a heavy burden on their move to S/4HANA Cloud
- A clean core is a desired outcome of this cloud transformation; SAP provides a robust framework for customers to attain & maintain a clean core
- The most reliable enabler of a clean core is BTP
- BTP provides multiple capabilities such as the Build portfolio that supports extensions to the core in a variety of ways including no-code, low-code, and pro-code

Thank you! Any questions?

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