SAP Business Technology Platform -
An Overview

Arne Speck, SAP
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Public

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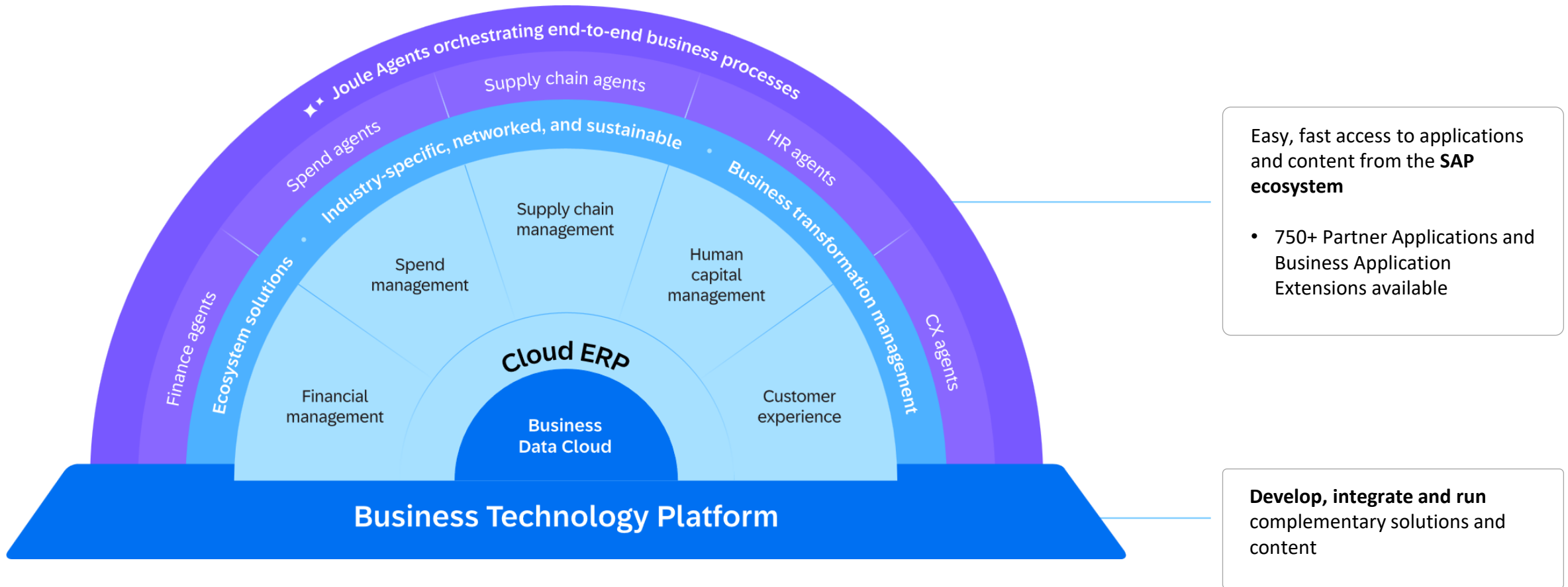# SAP BTP is the development foundation for SAP developments
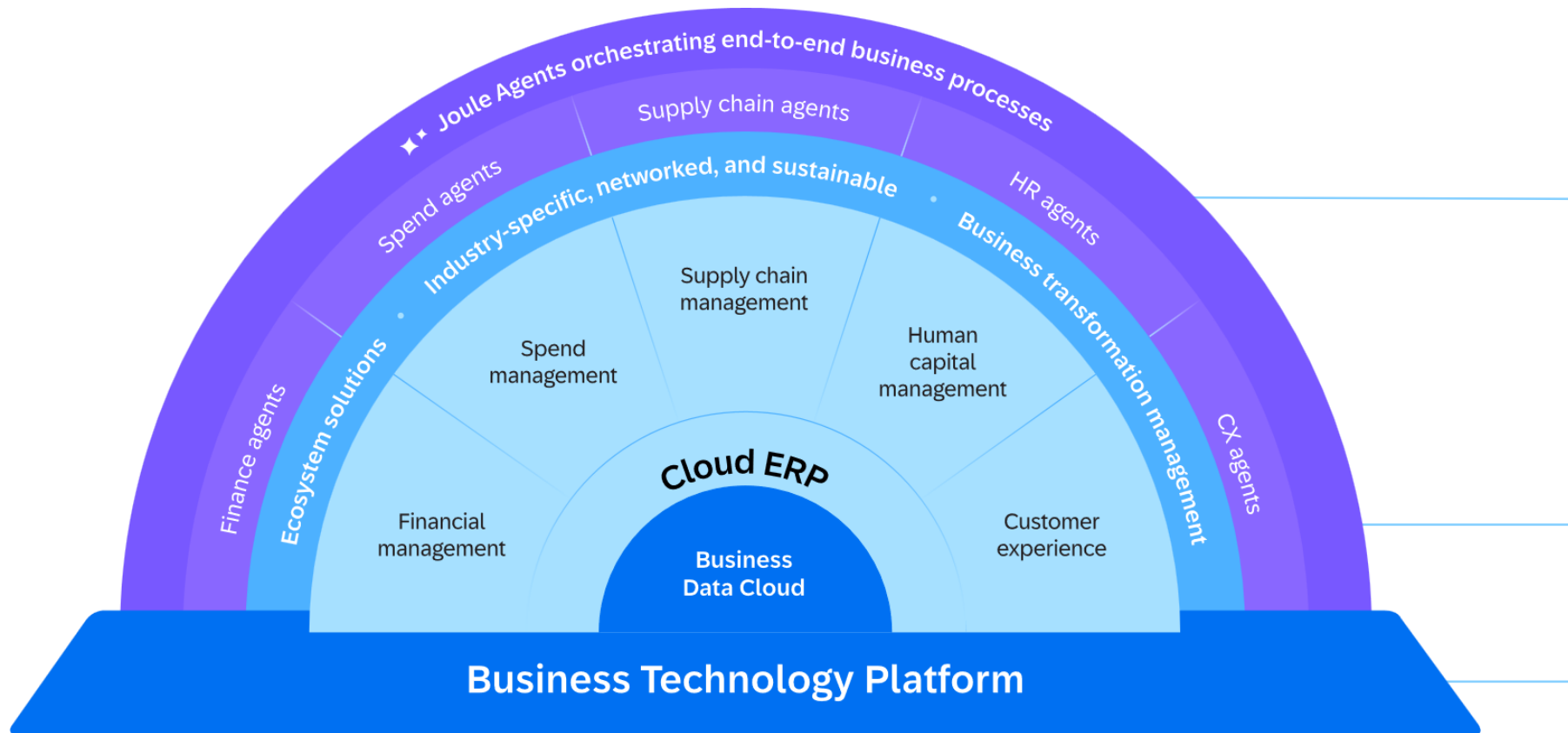
Innovation engine for SAP Cloud Applications
by embedding latest intelligent technologies

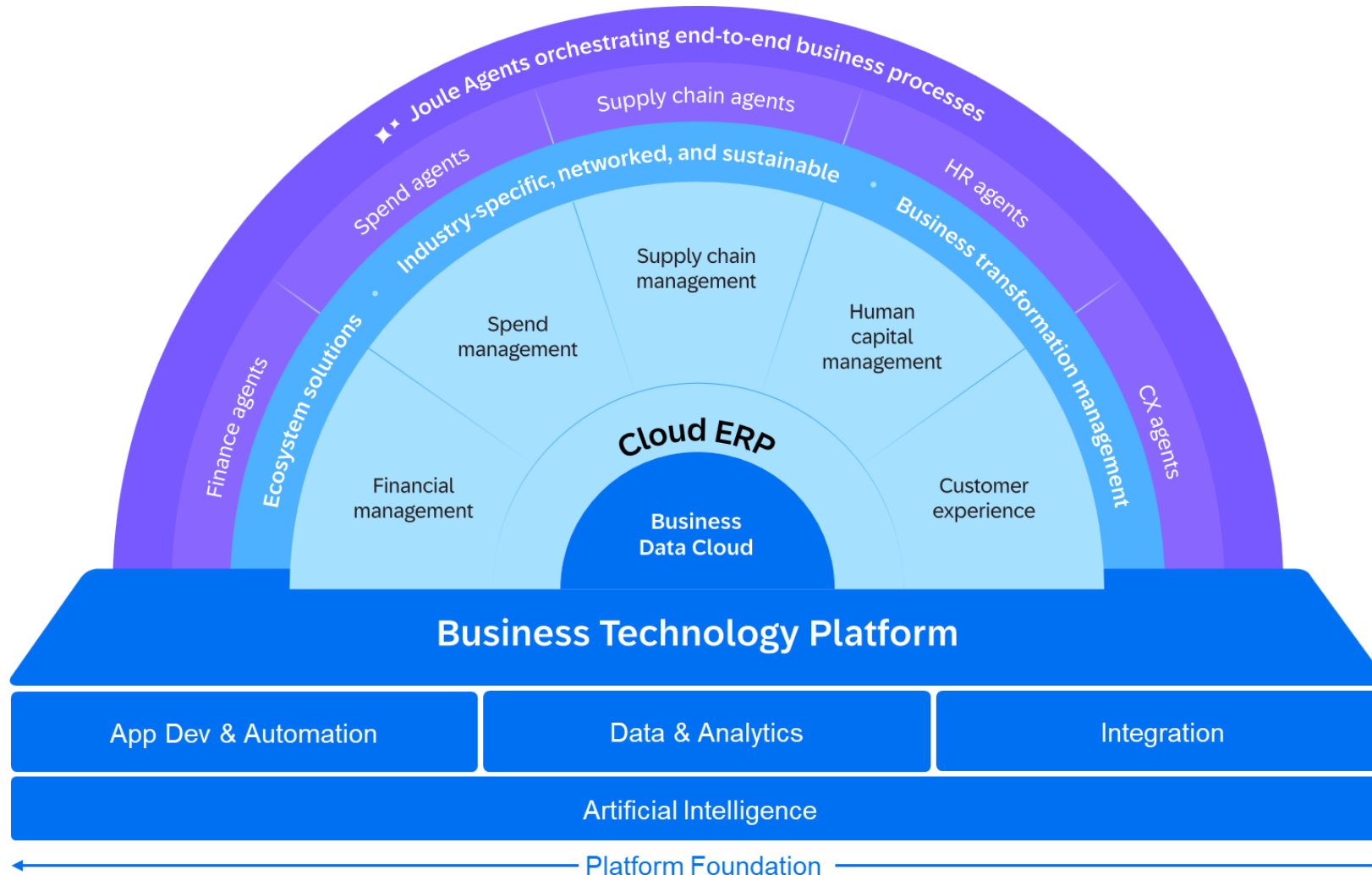- Target of 400 AI scenarios embedded into SAP Business Applications running on BTP by 2025

Utilize common platform services
across the full SAP portfolio, enabling consistent **qualities** across all SAP applications.

Harmonized technology foundation
in order to build and run new SAP Cloud Applications

Diagram labels:

- Joule Agents orchestrating end-to-end business processes
- Supply chain agents
- Spend agents
- HR agents
- Finance agents
- Ecosystem solutions
- Industry-specific, networked, and sustainable
- Business transformation management
- CX agents
- Supply chain management
- Spend management
- Human capital management
- Financial management
- Cloud ERP
- Business Data Cloud
- Customer experience
- **Business Technology Platform**

SAP BTP is the development and operations foundation for SAP Partners

Joule Agents orchestrating end-to-end business processes

Supply chain agents

Spend agents

HR agents

Finance agents

Ecosystem solutions

Industry-specific, networked, and sustainable

Business transformation management

CX agents

Supply chain management

Spend management

Human capital management

Financial management

Cloud ERP

Customer experience

Business Data Cloud

Business Technology Platform

Easy, fast access to applications and content from the **SAP ecosystem**

- 750+ Partner Applications and Business Application Extensions available

Develop, integrate and run complementary solutions and content

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SAP BTP is the foundation for your individual, integrated and automated business processes

Joule Agents orchestrating end-to-end business processes

Supply chain agents

Spend agents

HR agents

Industry-specific, networked, and sustainable

Finance agents

Ecosystem solutions

Business transformation management

CX agents

Supply chain management

Spend management

Human capital management

Cloud ERP

Financial management

Customer experience

Business Data Cloud

Business Technology Platform

App Dev & Automation	Data & Analytics	Integration

Artificial Intelligence

Platform Foundation

An **intuitive, modern development and innovation platform** for both, professional IT and citizen and business developers

With **self-service data discovery, modeling, planning, and analytics** for business users in a governed environment

Including integration solutions to **connect and streamline applications and processes** across the entire enterprise

Offering **built-in data products, integrations, workflows, app templates, and AI services**

Customer Example: Farys - Smart Water Platform

Meter head end system
- IBM
- Sagemcom
- Hydro

Index, consumption
Non-energy data, alarms, events

SAP Integration Suite

Water meters

SAP Integration Suite, advanced event mesh

Laboratory information management systems (LIMS)

LIMS data

SAP Smart Data Integration service

LIMS data

Smart water platform
- SAP Cloud for Energy
- SAP AI Core
- SAP HANA Cloud
- SAP Datasphere

Master data

Business attributes

Work orders

Notifications

SAP Integration Suite

SAP and non-SAP applications
- SAP S/4HANA

Reporting, analytics, and planning
- SAP Analytics Cloud

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We have proven experience to help you succeed.

66 of the 100 largest companies in the world using SAP BTP

29,000 customers use SAP BTP to innovate faster with business context

Extensive partner ecosystem

3,100 partners with more than **50,000+ members** are trained and enabled on SAP BTP

More than **750 partner apps** are built on SAP BTP

Built-in business content that delivers fast time to value

Leverage innovation assets in SAP BTP and built-in business content, including:

- **3,800+** pre-built integration flows
- **650+** business events
- **250+** connectors
- **4,200+** APIs

Sources: Research and internal data from SAP   **Learn more:** SAP Corporate Fact Sheet

App Development & Automation

One starting point, many possibilities with SAP Build on SAP BTP

What needs to be solved?

Bring it all together for a project		Fusion team development
Build applications without code		Low-code apps
Build applications with code		Pro-code apps
Automate processes or tasks		Automations
Set up business sites		Digital workspaces

Successfully solve your problems and extend your system with the right set of tools within one umbrella.

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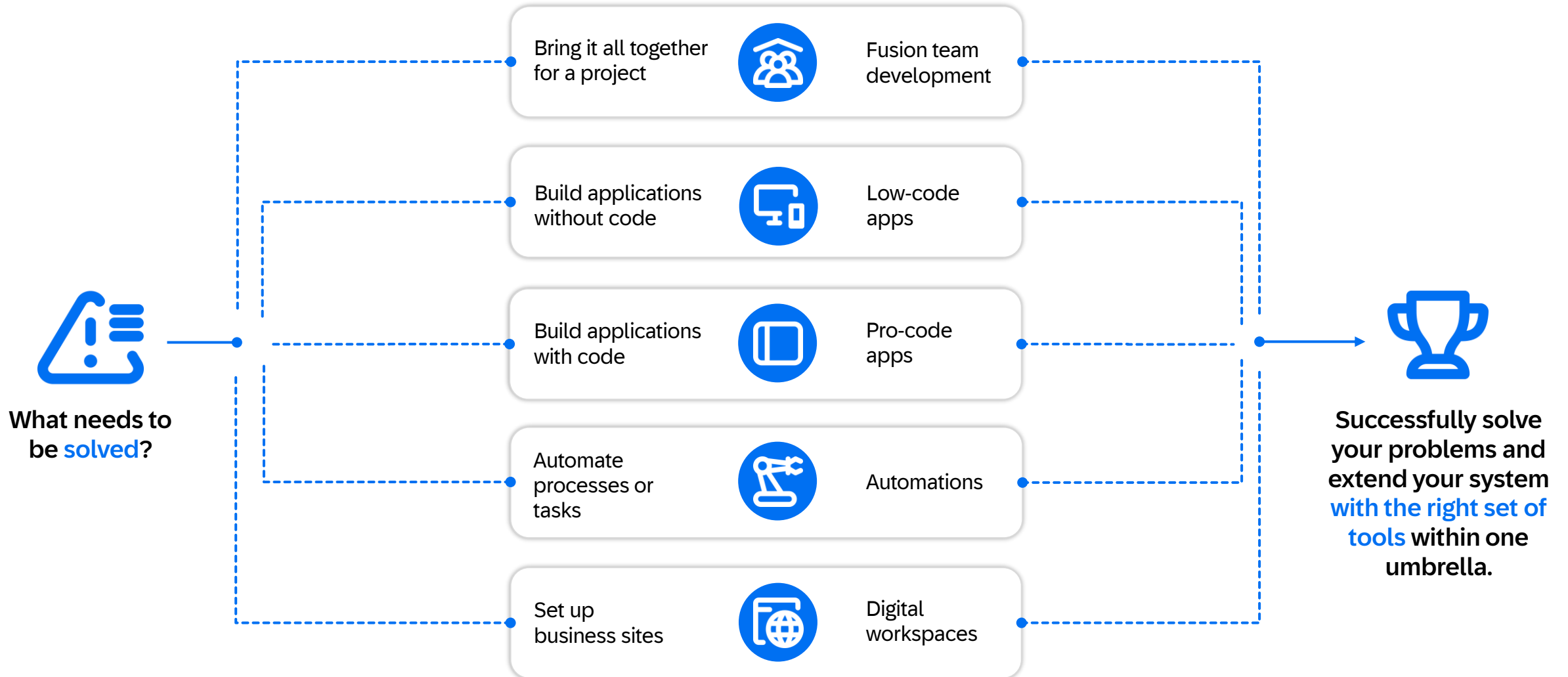
Bring it all together for a project
Building with SAP Build on SAP BTP

Provide a **unified lobby** for app composability and a single entry point for projects.

Consume components created with **pro-code and low-code solutions**.

Fast-track projects with **prebuilt templates from the lobby store**.

Govern ongoing projects to have **secure developments**.

Build extensions with or without code
Build visually, traditionally, or with generative AI

Build with the flexibility of the low-code and pro-code methods together.

Get coding assistance from Joule, the generative AI copilot.

Quickly build full-stack, UI, and mobile apps with **prebuilt templates**.

Adapt to **different environments** and build applications with ABAP, SAP Cloud Application Programming Model and ABAP RESTful application programming model.

SAP Build Code

ABAP environments
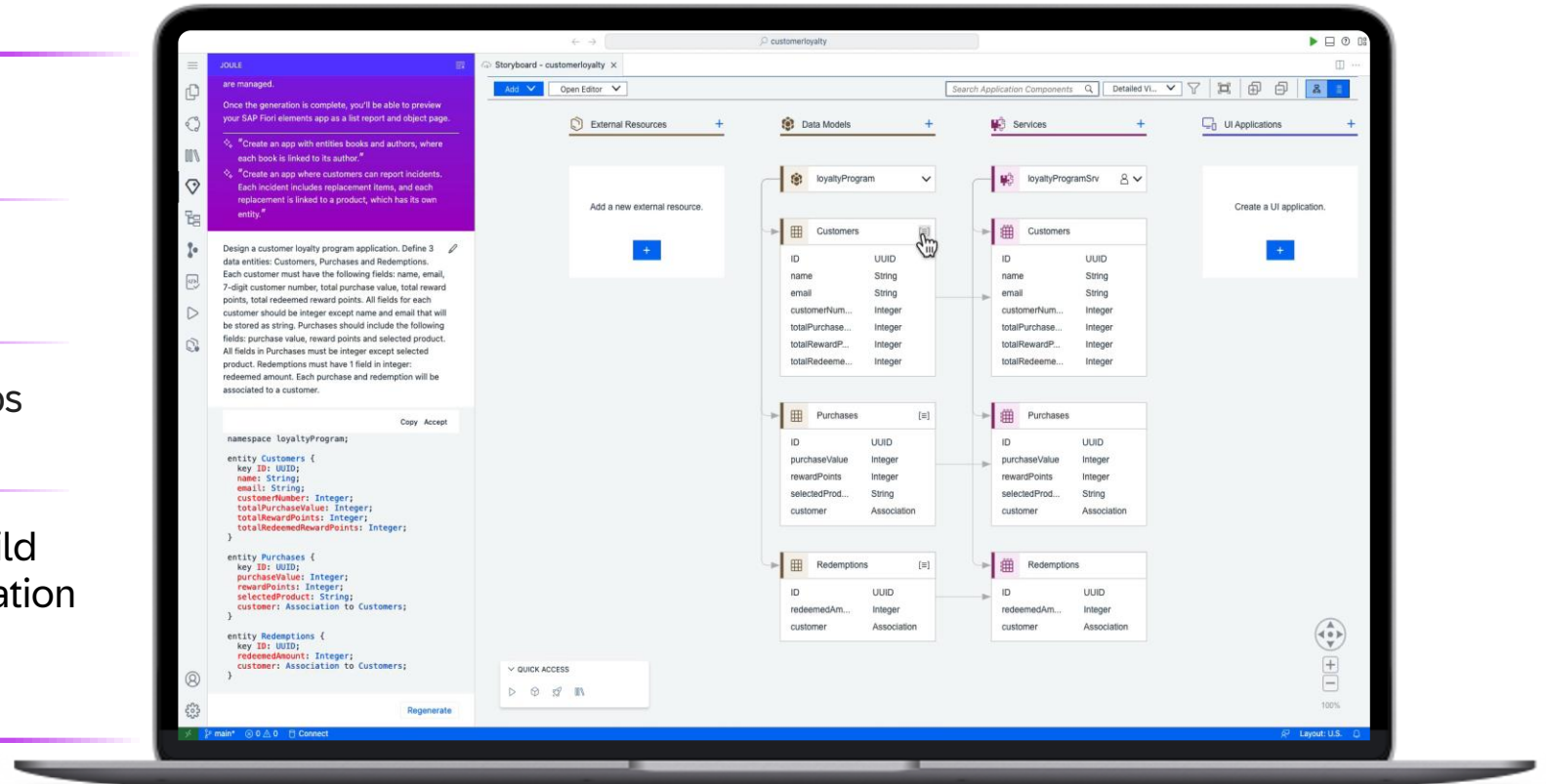
SAP Build Apps

Use SAP Build to maximize your SAP software investments

Mobile and web

Access applications and collaborate across devices.

Create mobile apps, front-end SAP Fiori apps, and digital workspaces.

Build faster and extend to meet your unique business needs.

AI and enterprise automation

Accelerate enterprise automation end to end.

Gain visibility into inefficiencies across your IT landscape.

Rapidly optimize with AI-powered automation.
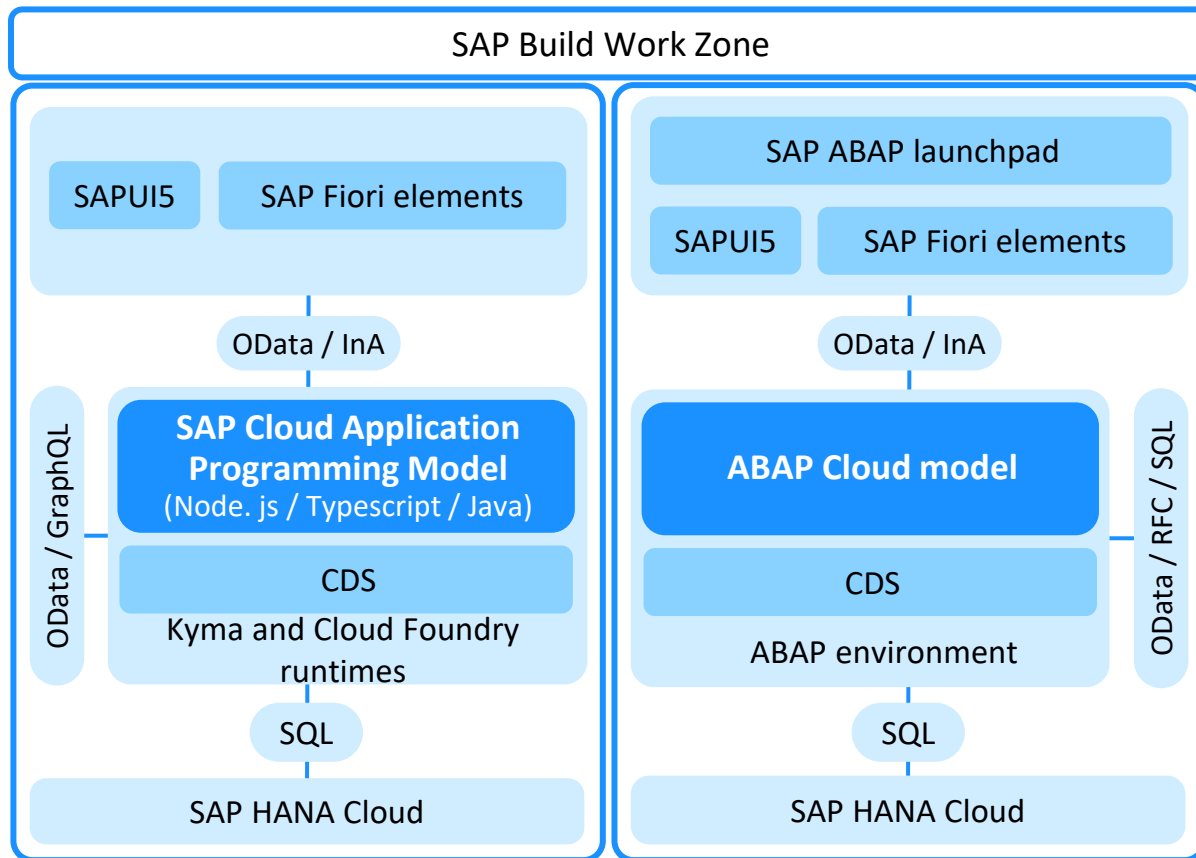
Application Extensions

Enable modern, flexible, and cloud-ready ERP and core systems.

Extend and customize core systems to remain as untouched as possible.

Gain agility, efficiency, reliable data and insights, and reduced TCO.

Build Extensions with Code
with Cloud Application Programming Model and ABAP Cloud

SAP Build Work Zone

| SAPUI5 | SAP Fiori elements |

OData / InA

SAP Cloud Application Programming Model
(Node. js / Typescript / Java)

CDS

Kyma and Cloud Foundry runtimes

SQL

SAP HANA Cloud

OData / GraphQL

SAP ABAP launchpad

| SAPUI5 | SAP Fiori elements |

OData / InA

ABAP Cloud model

CDS

ABAP environment

SQL

SAP HANA Cloud

OData / RFC / SQL

SAP Business Technology Platform

SAP BTP Developer's Guide
SAP is offering clear development recommendations and guidelines for application and extension development on SAP BTP.

SAP Cloud Application Programming Model and ABAP Cloud model
These models are the basis for these recommendations and guidelines, building on top of the runtimes below.

Three strategic SAP BTP runtimes:
- Cloud Foundry runtime
- Kyma runtime
- ABAP environment

SAP BTP Developer's Guide

SAP BTP as side-by-side platform in your S/4HANA Clean Core strategy

Easier Upgrades

Data Simplification

Lower TCO

Enhanced Security

Improved Performance

Access to Innovation

"Clean" means up-to-date, documented, unmodified, consistent, efficient and cloud compliant.

Automate processes
Simplify process and task automation

Create and manage workflows, automations, and business rules with drag-and-drop simplicity.

Develop faster using prebuilt solutions, bots, and connectors for SAP and third-party systems.

Use built-in AI for intelligent document processing.
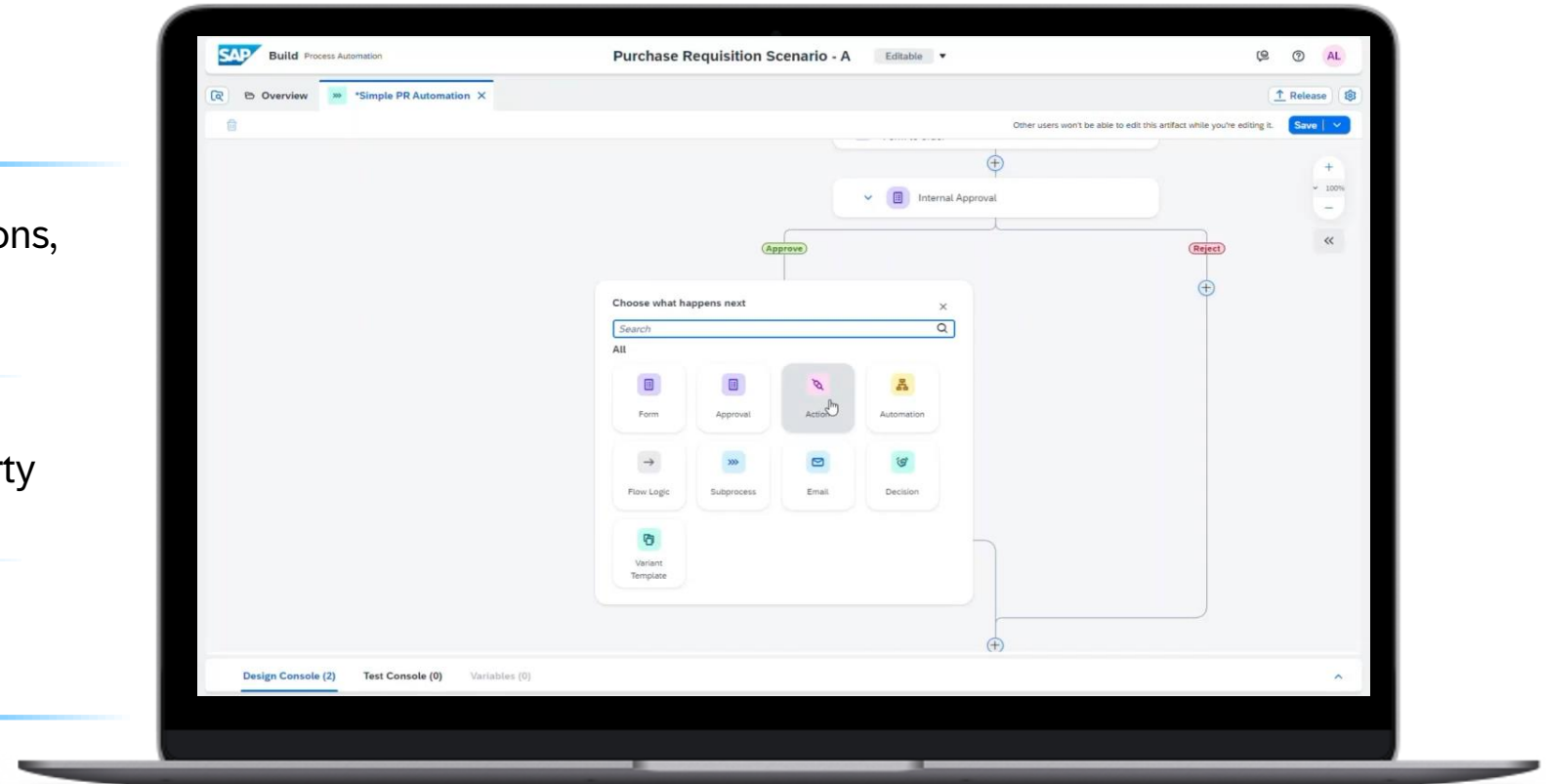
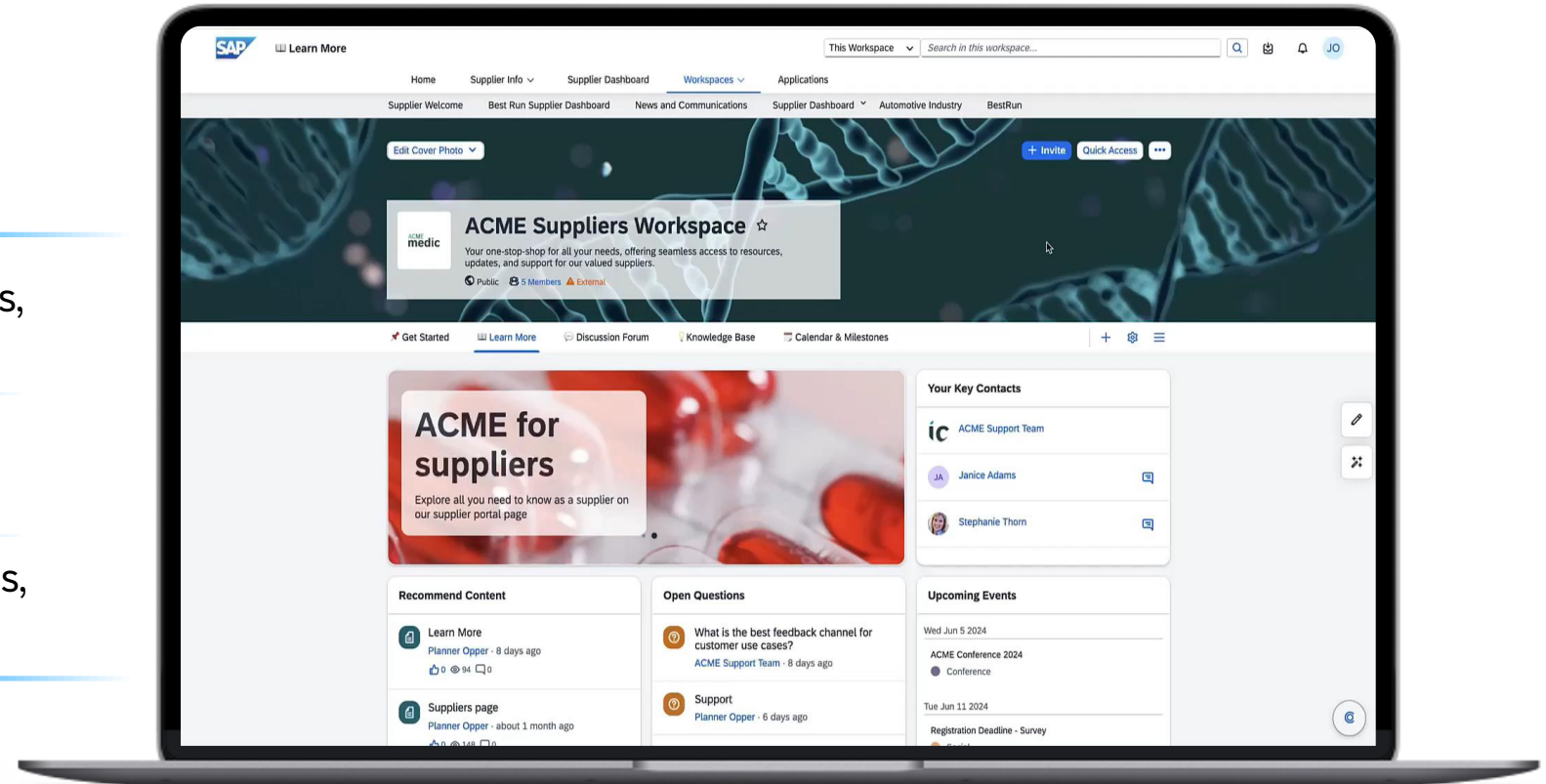**SAP Build Process Automation**

Set up business sites & design digital workspaces
Create engaging sites to get work done quickly across enterprise applications

Build digital workspaces, business sites, and portals with ease.

Maximize team productivity with **guided experiences and knowledge sharing**.
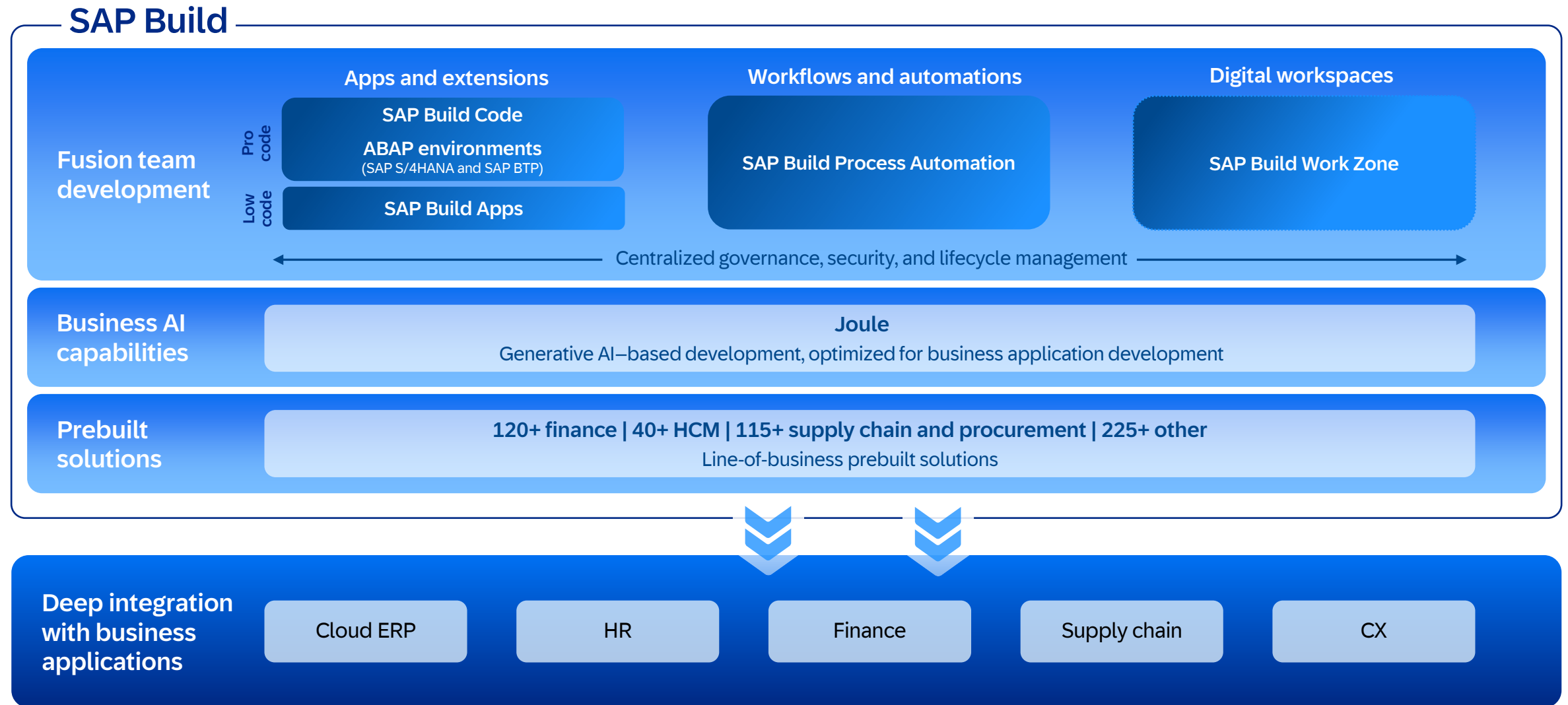
Surface personalized recommendations, insights, and actions.

SAP Build Work Zone

Application Development and Automation with SAP BTP

SAP Build

Apps and extensions

SAP Build Code

ABAP environments
(SAP S/4HANA and SAP BTP)

Pro code

SAP Build Apps

Low code

Workflows and automations

SAP Build Process Automation

Digital workspaces

SAP Build Work Zone

Centralized governance, security, and lifecycle management

Fusion team development

Business AI capabilities

Joule
Generative AI–based development, optimized for business application development

Prebuilt solutions

120+ finance | 40+ HCM | 115+ supply chain and procurement | 225+ other
Line-of-business prebuilt solutions

Deep integration with business applications

| Cloud ERP | HR | Finance | Supply chain | CX |

Data &
Analytics

SAP Business Data Cloud

Continue our path towards a Business Data Fabric

Controlled Availability Q1 2025

✦ **Business AI**

Insight Apps

Partner Ecosystem Apps

360° analytics

Extended planning

Connect, Discover, and Govern Business Data

Business Data Fabric

Data products

Harmonized data models

SAP Apps

Hybrid • SaaS • Cloud-native • On-premises • Edge **Non-SAP Data**

- **Evolution of the Business Data Fabric** journey which started in 2023 with SAP Datasphere and SAP Analytics Cloud powered by SAP HANA Cloud

- **Next pivotal step in SAP's data strategy** on delivering out-of-the-box always-on data products following a harmonized data model to provide scalable access without duplication to reduce time to value

- **Adapting to the rapidly evolving needs** by adding more services supporting use cases such as generative AI, data products with rich semantics, and analytical insight apps
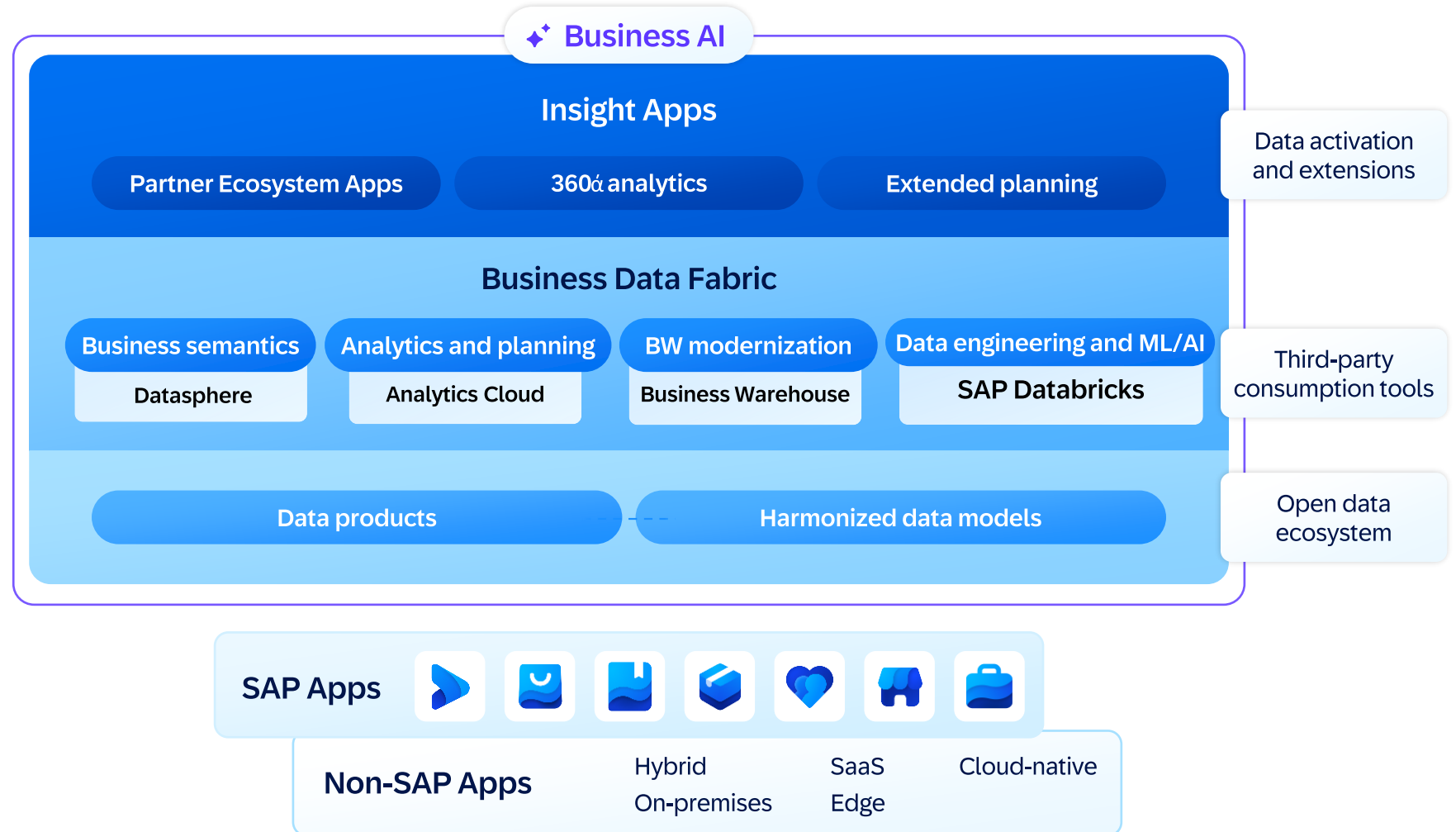
SAP Business Data Cloud's comprehensive strategy for enterprise data
The Evolution of Data & Analytics

Delivering the Best TCO
with a Clear Path Forward
for all SAP Customers

✦ **Business AI**

Insight Apps

| Partner Ecosystem Apps | 360ɑ analytics | Extended planning |

Data activation
and extensions

Business Data Fabric

| Business semantics | Analytics and planning | BW modernization | Data engineering and ML/AI |
| Datasphere | Analytics Cloud | Business Warehouse | **SAP Databricks** |

Third-party
consumption tools

| Data products | Harmonized data models |

Open data
ecosystem

SAP Apps

Non-SAP Apps Hybrid SaaS Cloud-native
On-premises Edge

Capabilities gained using SAP Business Data Cloud

Unleash transformative insights	Connect all your data	Foster reliable AI

Context Aware Insight Apps
- Utilize ready-to-run insights leveraging industry and line of business expertise infused with trusted AI
- Drive agile decisions with combined planning and analysis
- Achieve better business outcomes using predictive analysis and simulation

Business-Ready Data Products
- Leverage SAP's deep expertise in application data and industry best practices with pre-built data products
- Ensure consistency and business context with SAP-managed data sets and semantics

Seamless Integration of Business Semantics
- Integrate data from SAP and non-SAP cloud and on-premises sources
- Model, transform and enrich data keeping business context intact
- Provide self-service analytical modeling for business users
- Expose SAP BW in a modern data fabric architecture

Unified and Scalable Data Platform
- Consume SAP data products in advanced pipelines
- Extend SAP data with externally connected data
- Create semantically rich data flows as a foundation for AI
- Build ML models with data science workbench

Augment Decision-Making with AI Copilot
- Ensure accurate results from GenAI
- Interact with data using conversational AI
- Improve productivity with embedded automation and workflows

Simplify and fully integrate your data landscape
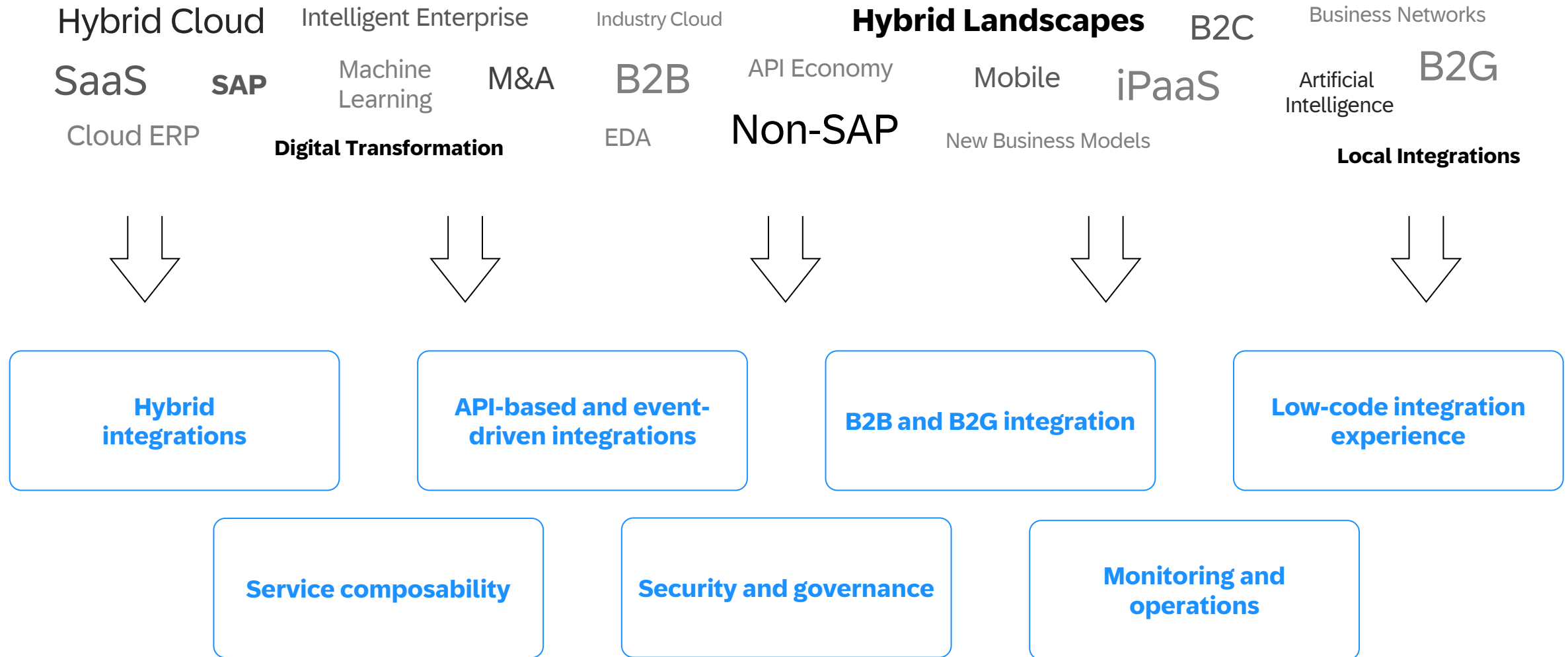
Ensure Trust with Governance
- Harmonize data models and consumption across integrated components
- Automate metadata collection with a common data catalog
- Bolster confidence with centralized control of data access

Scale Through Ecosystem Integration
- Integrate with industry leading data and AI partner solutions
- Enhance decision-making with trusted industry data enrichment
- Leverage partner domain expertise to enhance and discover use cases
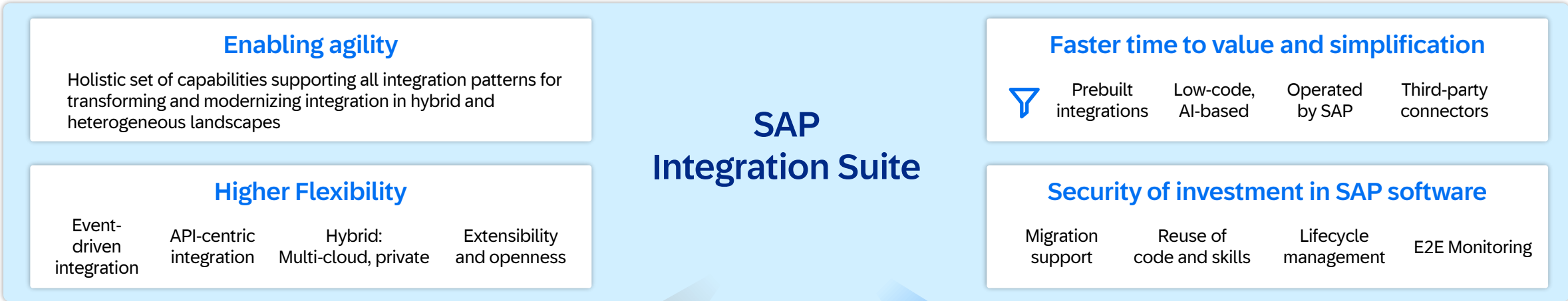
Integration

Quickly evolving hybrid landscapes

Hybrid Cloud   Intelligent Enterprise   Industry Cloud   **Hybrid Landscapes**   B2C   Business Networks

SaaS   **SAP**   Machine Learning   M&A   B2B   API Economy   Mobile   iPaaS   Artificial Intelligence   B2G

Cloud ERP   **Digital Transformation**   EDA   Non-SAP   New Business Models   **Local Integrations**

Hybrid integrations	API-based and event-driven integrations	B2B and B2G integration	Low-code integration experience

| | Service composability | Security and governance | Monitoring and operations | |

SAP Integration Suite
One holistic & modern platform for integration and innovation needs

Define and govern your Integration Strategy

Enabling agility
Holistic set of capabilities supporting all integration patterns for transforming and modernizing integration in hybrid and heterogeneous landscapes

Higher Flexibility

| Event-driven integration | API-centric integration | Hybrid: Multi-cloud, private | Extensibility and openness |

SAP Integration Suite

Faster time to value and simplification

| Prebuilt integrations | Low-code, AI-based | Operated by SAP | Third-party connectors |

Security of investment in SAP software

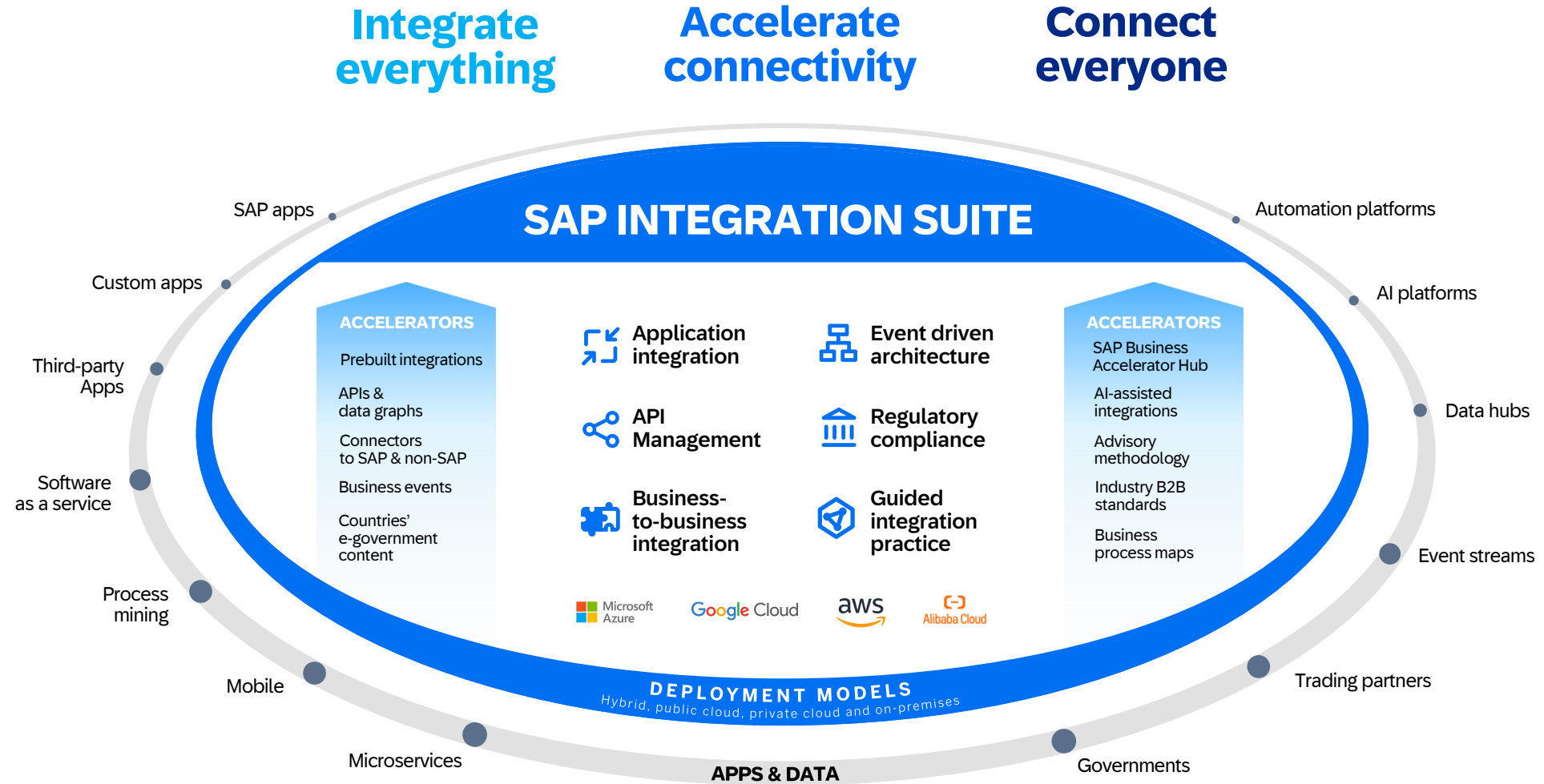| Migration support | Reuse of code and skills | Lifecycle management | E2E Monitoring |

Consolidate

Modernize

Third-party integration platforms

SAP software – Legacy Integration
SAP Process Orchestration
SAP Process Integration
Custom-built direct Integrations

Integrate everything to innovate now

Integrate everything

Accelerate connectivity

Connect everyone

SAP INTEGRATION SUITE

SAP apps
Custom apps
Third-party Apps
Software as a service
Process mining
Mobile
Microservices

Automation platforms
AI platforms
Data hubs
Event streams
Trading partners
Governments

ACCELERATORS
Prebuilt integrations
APIs & data graphs
Connectors to SAP & non-SAP
Business events
Countries' e-government content

Application integration
API Management
Business-to-business integration

Event driven architecture
Regulatory compliance
Guided integration practice

ACCELERATORS
SAP Business Accelerator Hub
AI-assisted integrations
Advisory methodology
Industry B2B standards
Business process maps

Microsoft Azure
Google Cloud
aws
Alibaba Cloud

DEPLOYMENT MODELS
Hybrid, public cloud, private cloud and on-premises

APPS & DATA

SAP Integration Suite – Facts and Numbers

13,000+
SAP Integrations Suite customers

750,000+
Integration scenarios deployed

450,000+
Systems and applications connected with SAP Integration Suite

3,800+
Prebuilt integrations to accelerate integrations

4,300+
Ready to use APIs in SAP Business Accelerator Hub

Artificial Intelligence

Our Business AI is embedded across the portfolio

Signavio ---- LeanIX ---- WalkMe ---- **AI-Assisted Cloud Transformation** ---- CALM ---- Joule for Consultants ---- and more

Joule

Joule agents

Embedded AI capabilities

Financial Management	Supply Chain Management	Human Capital Management	Spend Management	Customer Experience	Business Technology Platform

Customized AI
based on AI foundation

SAP Business Data Cloud

AI Foundation
on SAP Business Technology Platform

AI ecosystem partnerships and investments

ALEPH ALPHA   ANTHROP\C   aws   cohere   databricks   Google Cloud   IBM   Meta   Microsoft   MISTRAL AI_   NVIDIA

Drive relevant outcomes ✦ Trust reliable results ✦ Adopt AI and scale responsibly

AI Foundation is a complete set of services for AI developers on SAP BTP

SAP Business Data Cloud

Joule

Joule agents

Embedded AI capabilities

Financial Management	Supply Chain Management	Human Capital Management	Spend Management	Customer Experience	Business Technology Platform

Customized AI
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Drive relevant outcomes   ◆   Trust reliable results   ◆   Adopt AI and scale responsibly

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AI Foundation is a complete set of services for AI developers on SAP BTP

AI Foundation

on SAP Business Technology Platform

← Adaptability →

AI Services

| Tabular Data Processing | Document Processing | Text Processing |

AI Lifecycle Management

| Access | Exploration & Development | Deployment & Delivery | Orchestration |

| Governance | Trust & Security |

Business Data & Context

| Database AI Engine | Vector Engine | Knowledge Graph Engine |

| Data Management |

Generative AI Hub

Develop, deploy, and manage custom-built AI solutions and AI-powered extensions of SAP applications.

Adaptability

AI Lifecycle Management

Access	Exploration & Development	Deployment & Delivery	Orchestration

Governance	Trust & Security
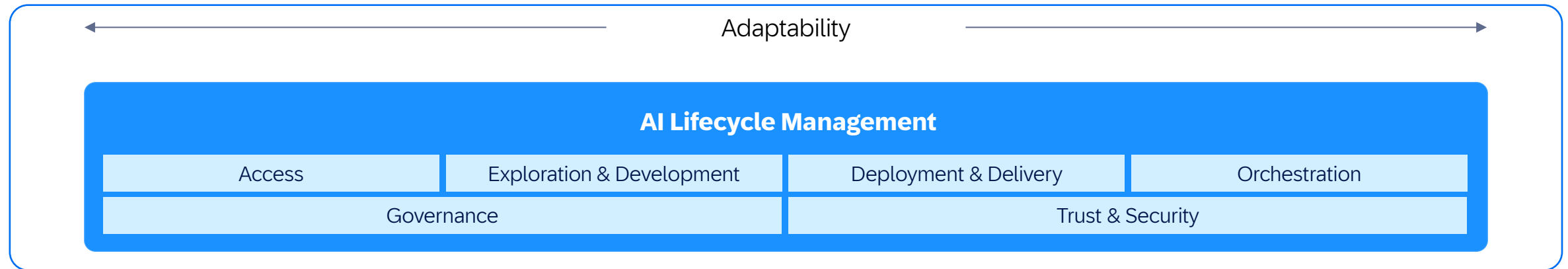
Get flexible access to broadest range of models & compute capacity

Speed up AI development with access to the broadest set of frontier AI models, infrastructure and tooling.

Extend SAP applications with AI & build custom AI solutions

Combine AI models with your unique data to build powerful custom AI solutions or extend SAP applications.

Safeguard your data & develop AI responsibly

Safeguard your data and maintain full control of your AI lifecycle with SAP's trusted privacy and security policies, and a centralized orchestration approach.

25 models available

Generative AI Hub

Managed by SAP

MISTRAL AI_	Mixtral 8x7b
Meta	Llama 3 70b
Meta	Llama 3.1 70B
ALEPH ALPHA	Aleph Alpha Pharia-1 **soon**
MISTRAL AI_	Mistral Large V2
IBM	Granite v2

Built by Partners

GPT-4		GPT-4o		GPT-4 Turbo	
GPT-3.5 Turbo		Text-embedding-3-large		Text-embedding-3-small	
Text-embedding-ada		Titan Text Express		Titan Text Lite	
Gemini 1.0 Pro		Titan Text Embeddings		Gemini 1.5 Pro	
Textembedding-gecko		Gemini 1.5 Flash		Claude 3.5 Sonnet	
Textembedding-gecko-multilingual		Claude 3 Sonnet		GPT-4o mini	
Claude 3 Haiku		Claude 3 Opus		DALL-E **soon**	
				Amazon Titan Image Generator G1 **soon**	

Built by SAP

SAP	ABAP Code Generation **soon**
SAP	ABAP Code Explain **soon**

SDKs and client libraries

Leverage developer focused tooling such as powerful SDKs and client libraries to enhance your applications with generative AI and build new custom AI solutions much faster and easier.
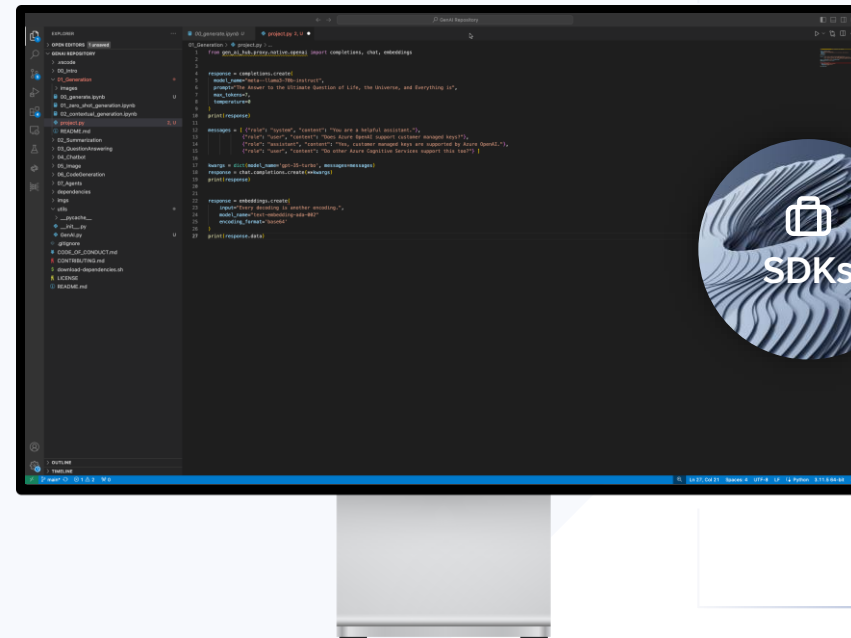
Platform
Foundation

SAP Foundational services

Runtimes & Application Lifecycle Management

Choose the perfect foundation for your development

SAP BTP offers three runtimes: Cloud Foundry providing simple deployment and handling for cloud applications, Kyma for more complex application requirements, and the ABAP Environment to continue existing development efforts.

With integrated DevOps tools as well as openness to leverage existing tools and pipelines, SAP BTP streamlines the application lifecycle to accelerate development, deployment and operations.

Security & Compliance

Securing your business processes and ensuring compliance

SAP BTP ensures top-tier security and compliance with built-in authentication, single sign-on, and strong authorization controls.

It supports global compliance requirements and simplifies audit logging for custom apps, allowing you to focus on development while ensuring data security and compliance.

Persistency

Trust SAP with your data in our persistency services

SAP BTP provides SAP HANA Cloud, a secure, reliable database-as-a-service that combines in-memory database and data lake solution. It handles all data types — structured, unstructured, graph, vector and more — in one platform.

This serves as the optimal foundation for all your applications, data and AI scenarios.

Connectivity

Connect all types of applications

SAP BTP ensures seamless, secure connectivity across hybrid IT landscapes, integrating public cloud, private cloud, and on-prem systems.

This allows you to integrate your existing IT investments without disrupting your core operations.

Administration and operations

Manage your stack

SAP BTP offers comprehensive administration and operations tools for enterprise management, including account control, entitlements, and centralized automation.

This enables proactive management, optimized resource use, and supports enterprise-level governance.

SAP BTP Build-Out and Data Center Strategy Based on Hyperscaler & SAP Infrastructure
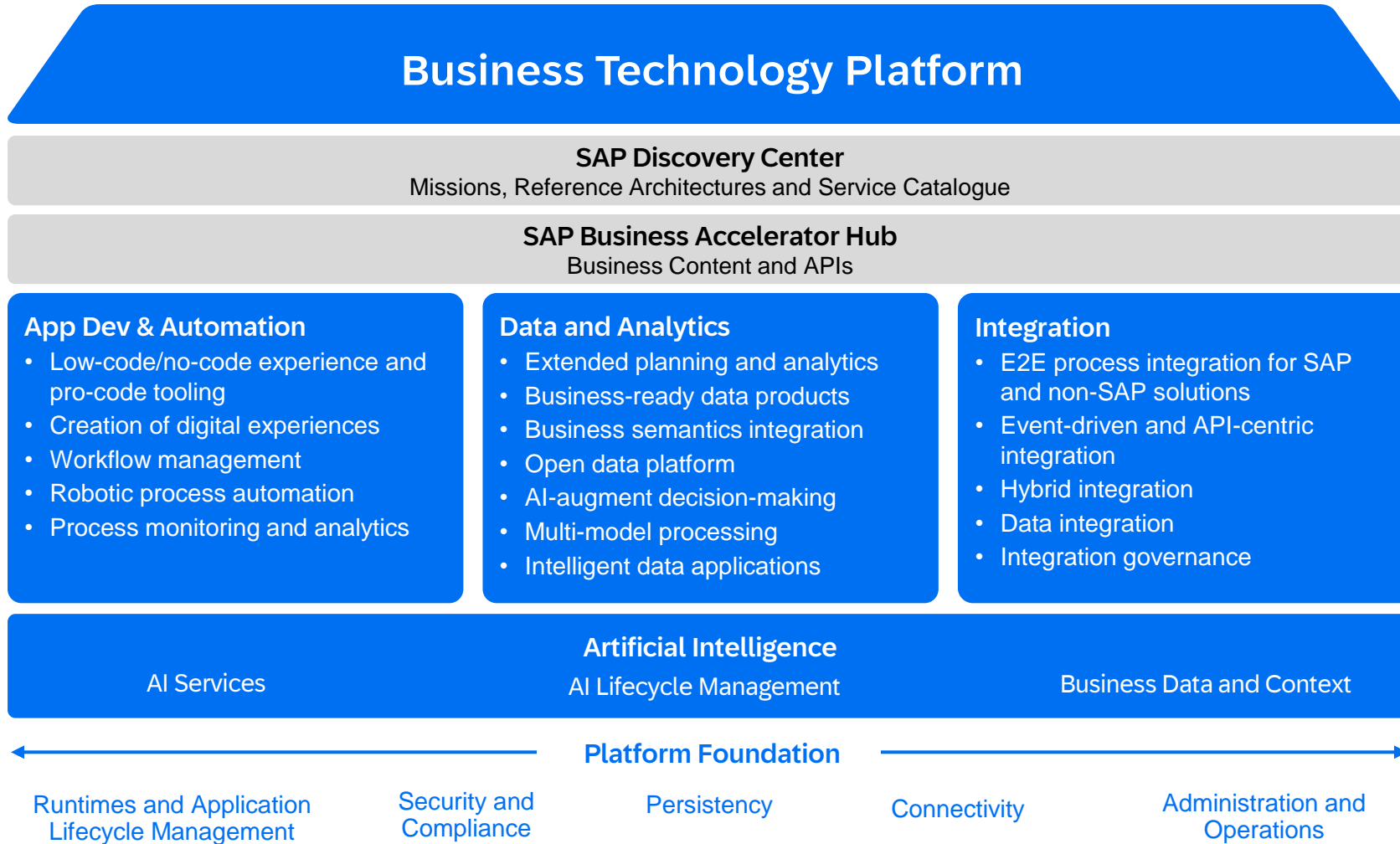

Legend:
- ● SAP BTP Public Cloud (Hyperscaler)
- ● SAP BTP Public Cloud (SAP)
- ● SAP BTP Public Cloud with EU Access
- ● SAP BTP Sovereign Cloud
- ◌ Planned Region

This overview reflects the current state of planning and may be changed by SAP at any time.
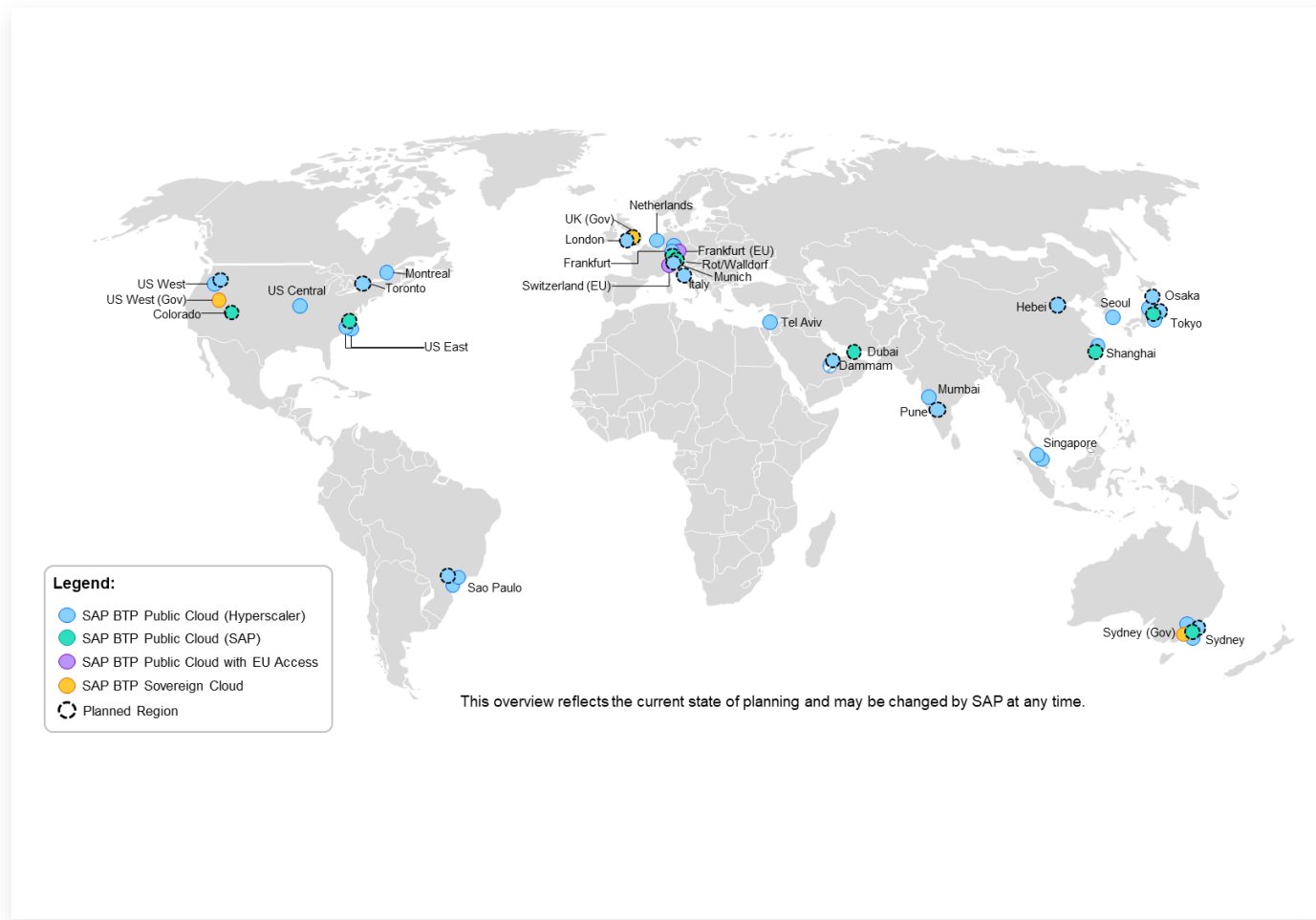
- Multi-cloud foundation is coming to **SAP's data centers**
  - Mid-2025 SAP will start to offer the multi-cloud foundation for SAP BTP additionally from **SAP-operated data centers**
  - **8 locations** planned until mid 2026

- Continued evolution of partner-based **locations**
  - **10+ new BTP data center** based **on hyperscaler infrastructure** until mid 2026

- **Aligned** service availability: Following our build-out strategy for SAP BTP services, the scope of the planned service portfolio per data center is focusing on our flagship SAP BTP services

Discover the details of **SAP's plans** regarding BTP data center build-out on **SAP Roadmap Explorer**

SAP Business Technology Platform

Business Technology Platform

SAP Discovery Center
Missions, Reference Architectures and Service Catalogue

SAP Business Accelerator Hub
Business Content and APIs

App Dev & Automation
- Low-code/no-code experience and pro-code tooling
- Creation of digital experiences
- Workflow management
- Robotic process automation
- Process monitoring and analytics

Data and Analytics
- Extended planning and analytics
- Business-ready data products
- Business semantics integration
- Open data platform
- AI-augment decision-making
- Multi-model processing
- Intelligent data applications

Integration
- E2E process integration for SAP and non-SAP solutions
- Event-driven and API-centric integration
- Hybrid integration
- Data integration
- Integration governance

Artificial Intelligence

AI Services | AI Lifecycle Management | Business Data and Context

Platform Foundation

Runtimes and Application Lifecycle Management | Security and Compliance | Persistency | Connectivity | Administration and Operations

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Thank you.

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