

An Enterprise Architects Guide to SAP Business Technology Platform

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2024

SAPinsider

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In This Session

The session explores the role of enterprise architects in leveraging the SAP Business Technology Platform (BTP) to drive digital transformation within organizations. It highlights the key components and capabilities of the BTP and provides insights on how enterprise architects can effectively design and implement solutions using this platform.

What We'll Cover

- Understanding the capabilities and design principals of SAP BTP
- How Enterprise Architects put SAP BTP Knowledge to practical use – Customer Example
- Top Resources to enable learning and adoption of SAP Business Technology Platform for Enterprise Architects
- Wrap-Up





SAP Business Technology Platform

Capabilities and Design Principals

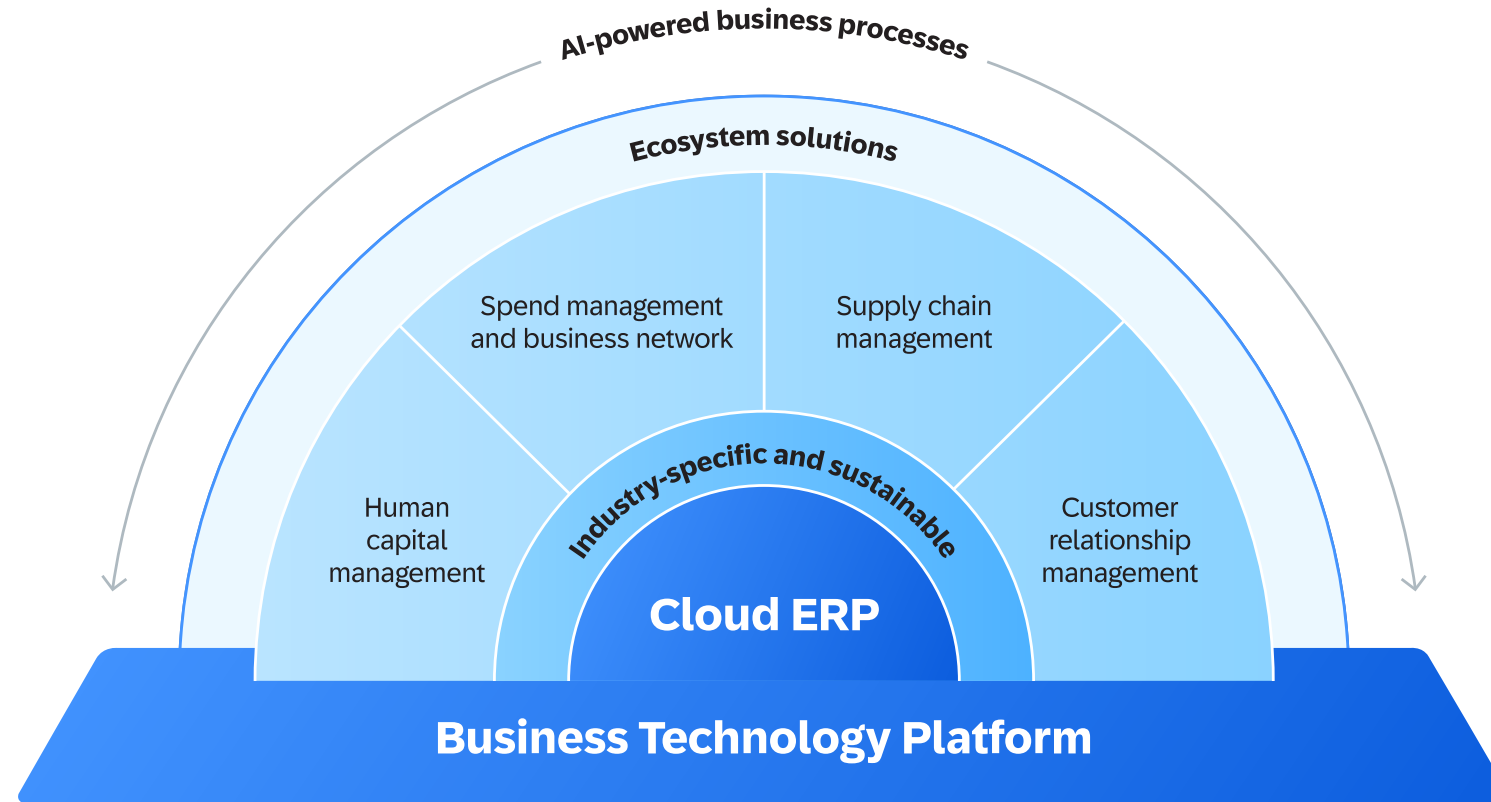
**Having a vision is a
critical first step
toward success...**



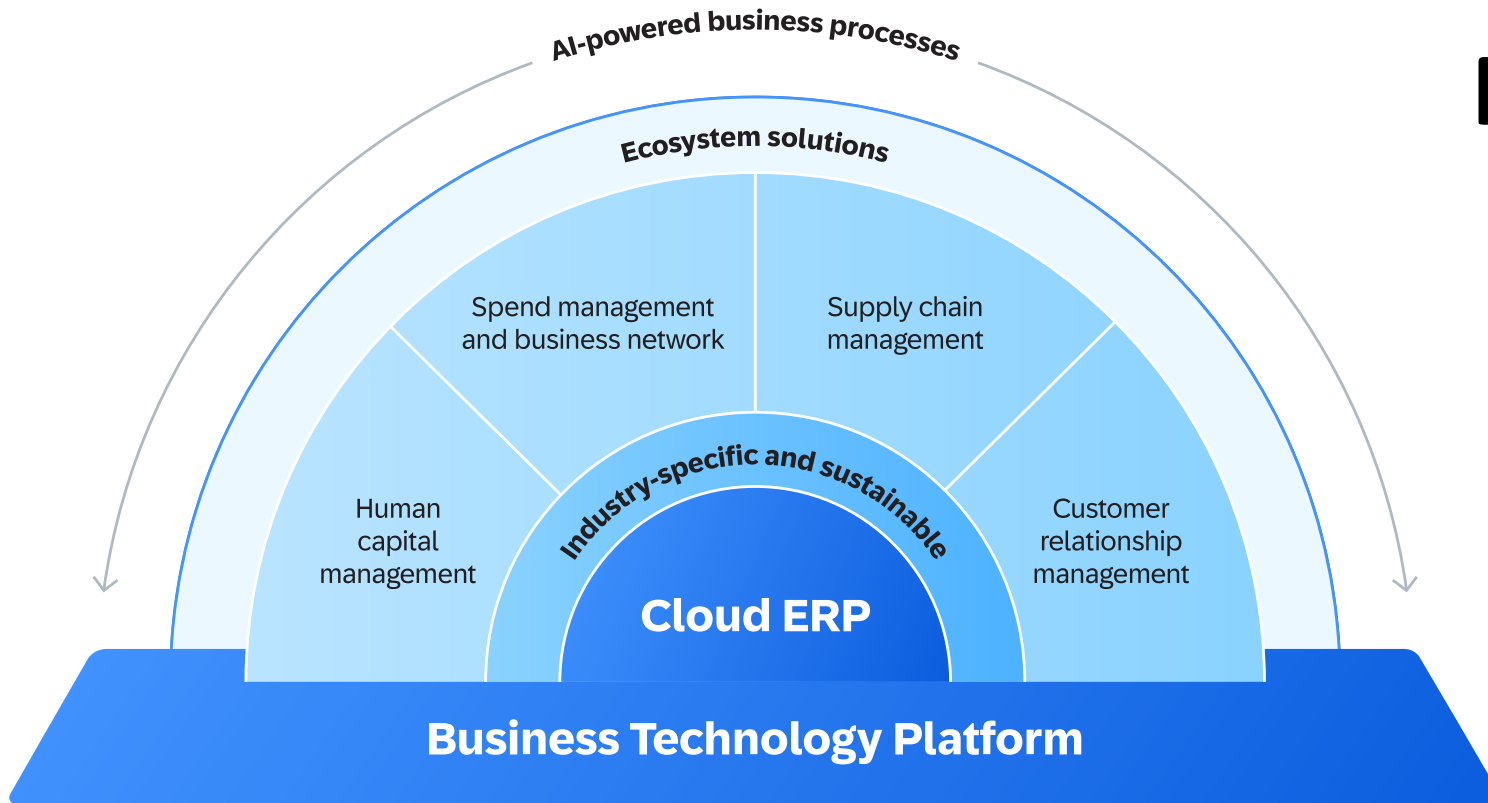
SAP Business Technology Platform.

A centerpiece of our corporate strategy

Our Portfolio turns our visions to reality

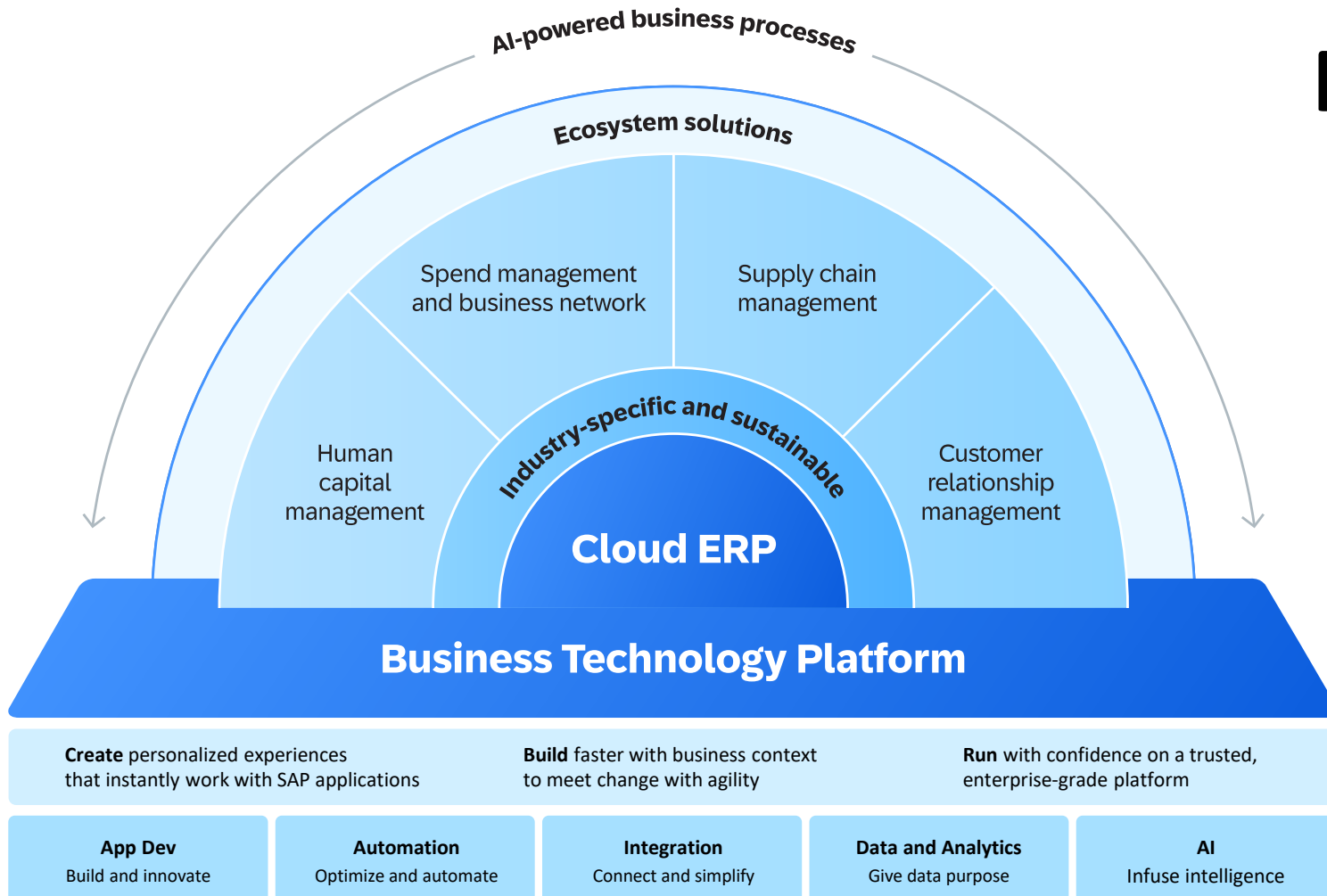


SAP Business Technology Platform...



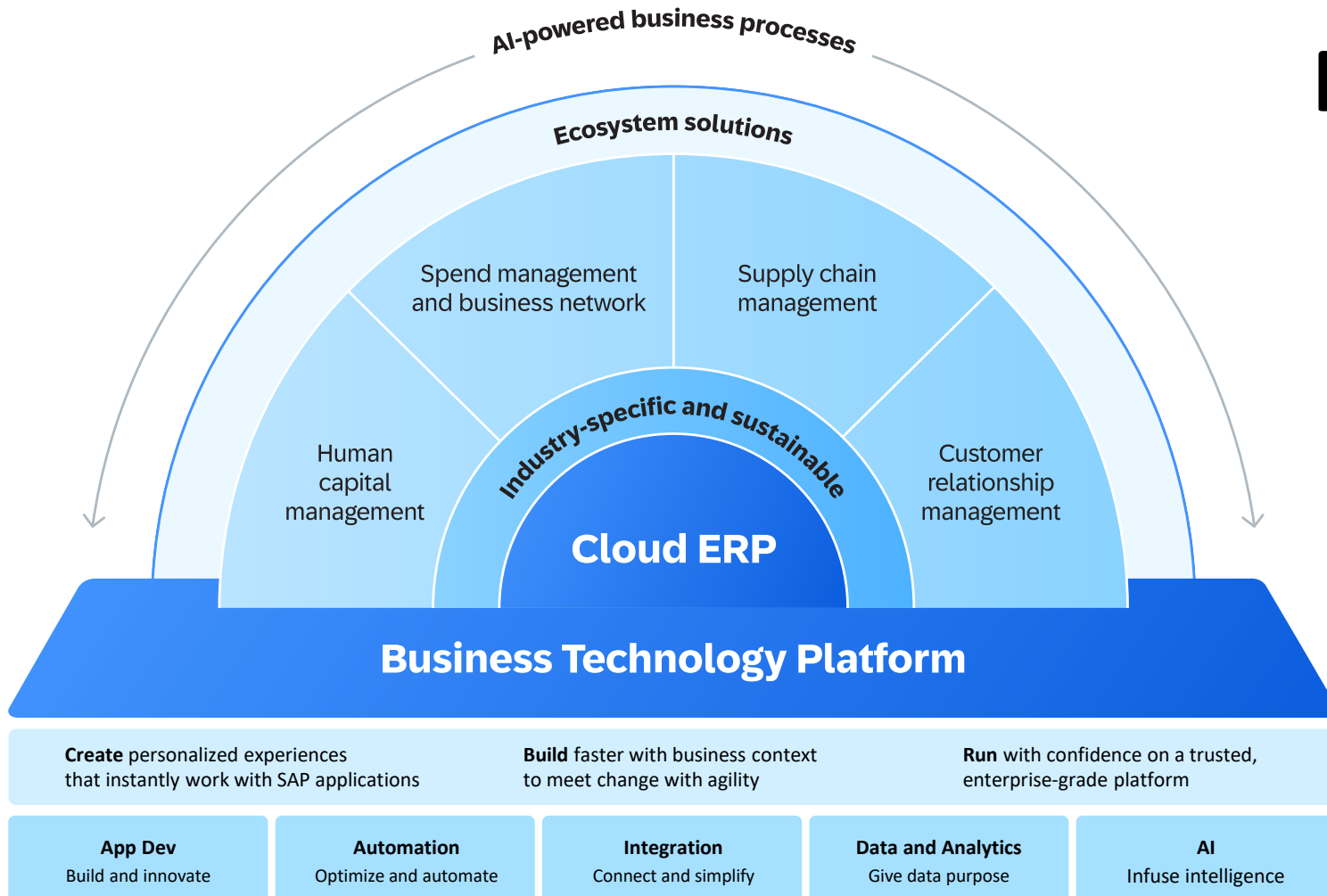
- ...is the **foundation** for a smoothly integrated SAP portfolio

SAP Business Technology Platform...



- ...is **the foundation** for a smoothly integrated SAP portfolio
- ...is **the platform** for customers and partners to **innovate and transform**.

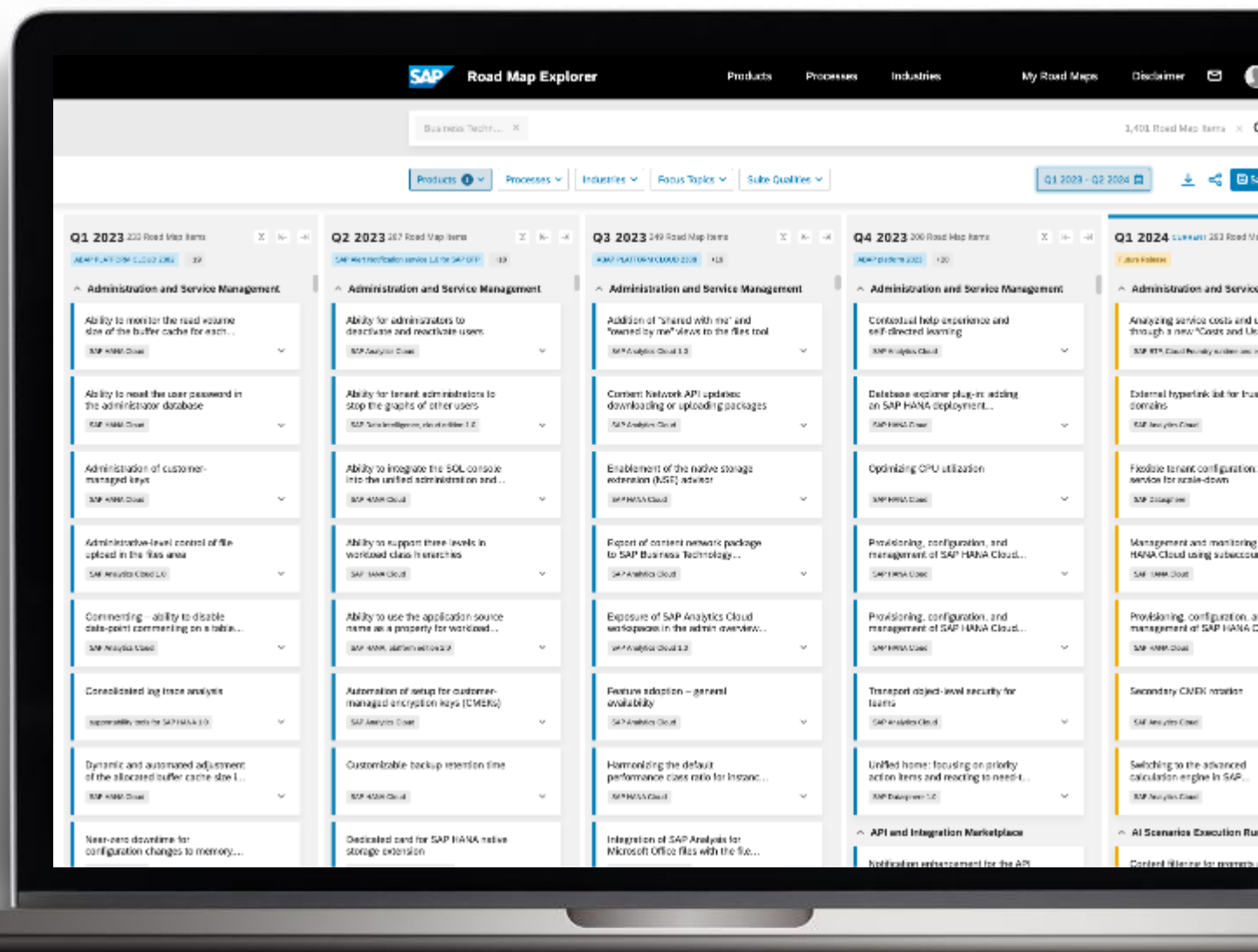
SAP Business Technology Platform...



- ...is **the foundation** for a smoothly integrated SAP portfolio
- ...is **the platform** for customers and partners to **innovate and transform**.
- ...embeds intelligence into our applications and exposes Business AI capabilities to partners and customers.

2023

SAP BTP Innovation Highlights

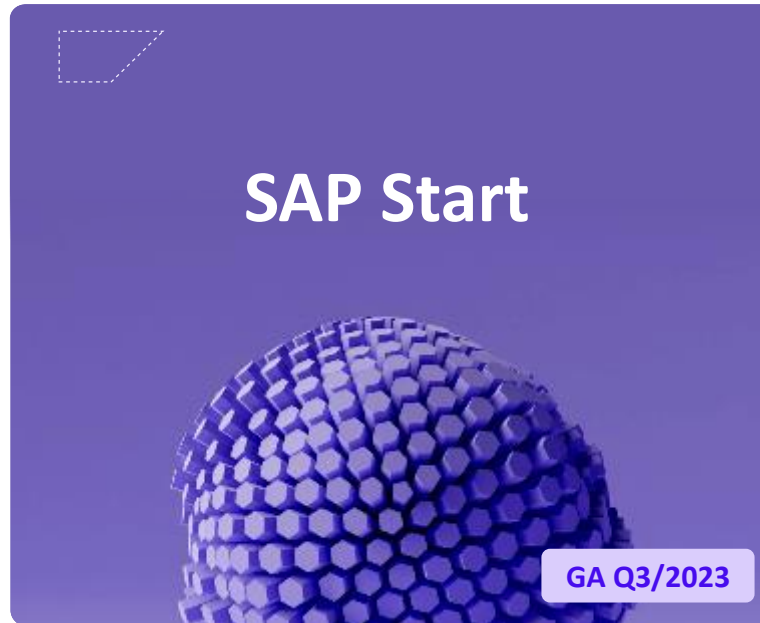




SAP Datasphere

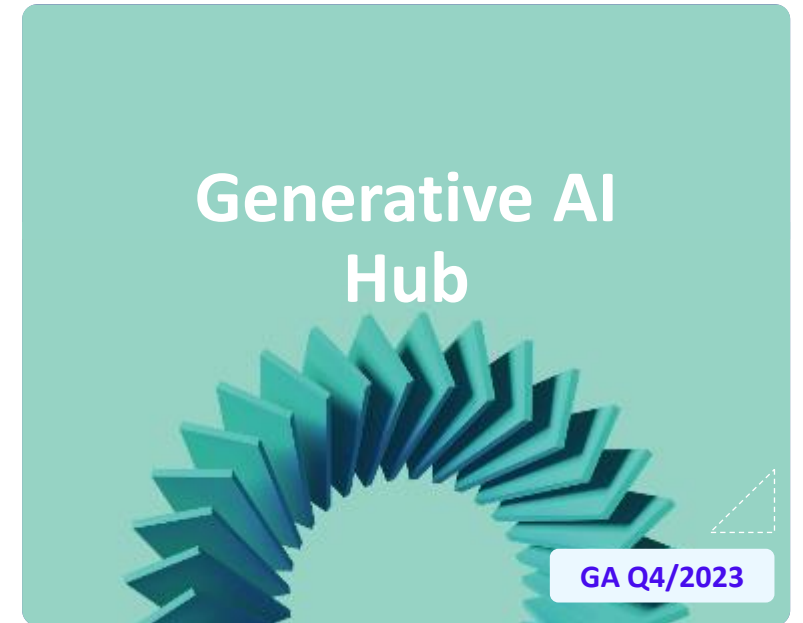
GA Q1/2023

UNLEASH THE POWER OF BUSINESS DATA



SAP Start

GA Q3/2023



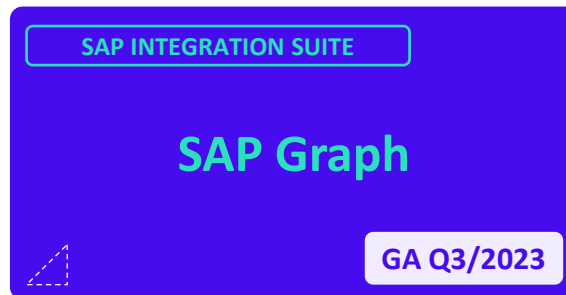
Generative AI Hub

GA Q4/2023



SAP BTP Developer's Guide

GA Q4/2023



SAP INTEGRATION SUITE

SAP Graph

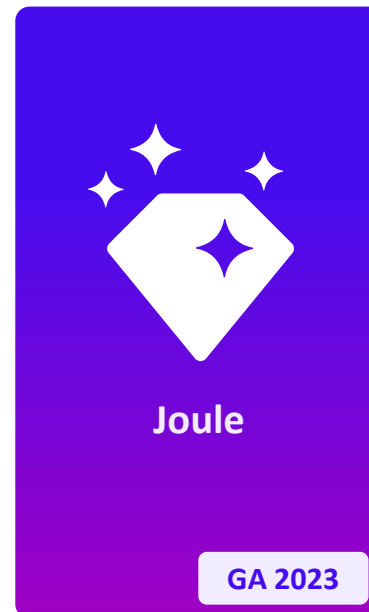
GA Q3/2023



SAP INTEGRATION SUITE

Edge Integration Cell

GA Q4/23



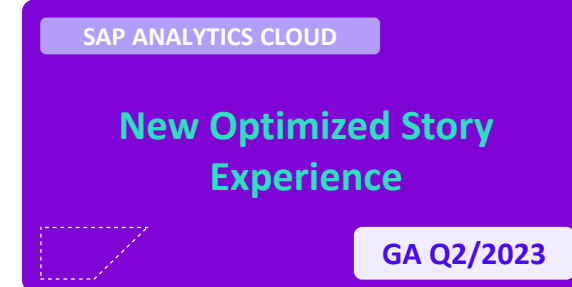
Joule

GA 2023



Terraform

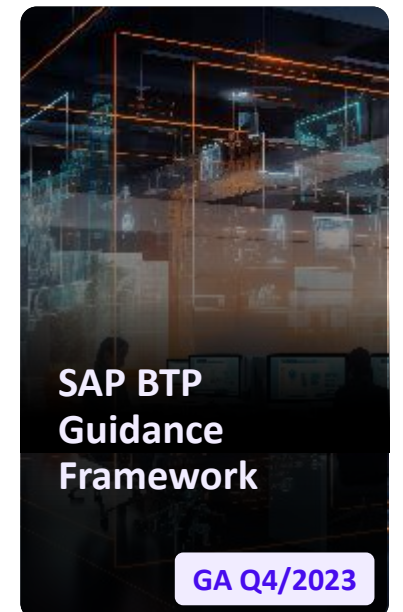
GA 12/23



SAP ANALYTICS CLOUD

New Optimized Story Experience

GA Q2/2023



SAP BTP Guidance Framework

GA Q4/2023



How Enterprise Architects put SAP BTP Knowledge to practical use

A brief Customer journey Example

From vision to Reality.

Customer Example



Solving Supply Chain Hurdles with
Generative AI



SAP BTP in action

AMD – Solving Supply Chain Hurdles with Generative AI

90%

Reduction in time and cost
spent on root cause analysis
projected

10,400

Orders analyzed each year
with GenAI Supply Chain
Troubleshooter

3,120

Hours of headcount
productivity to be
saved each year

→ Projection based on PoC findings.

Parts of SAP BTP that helped to succeed...

App Dev



Automation

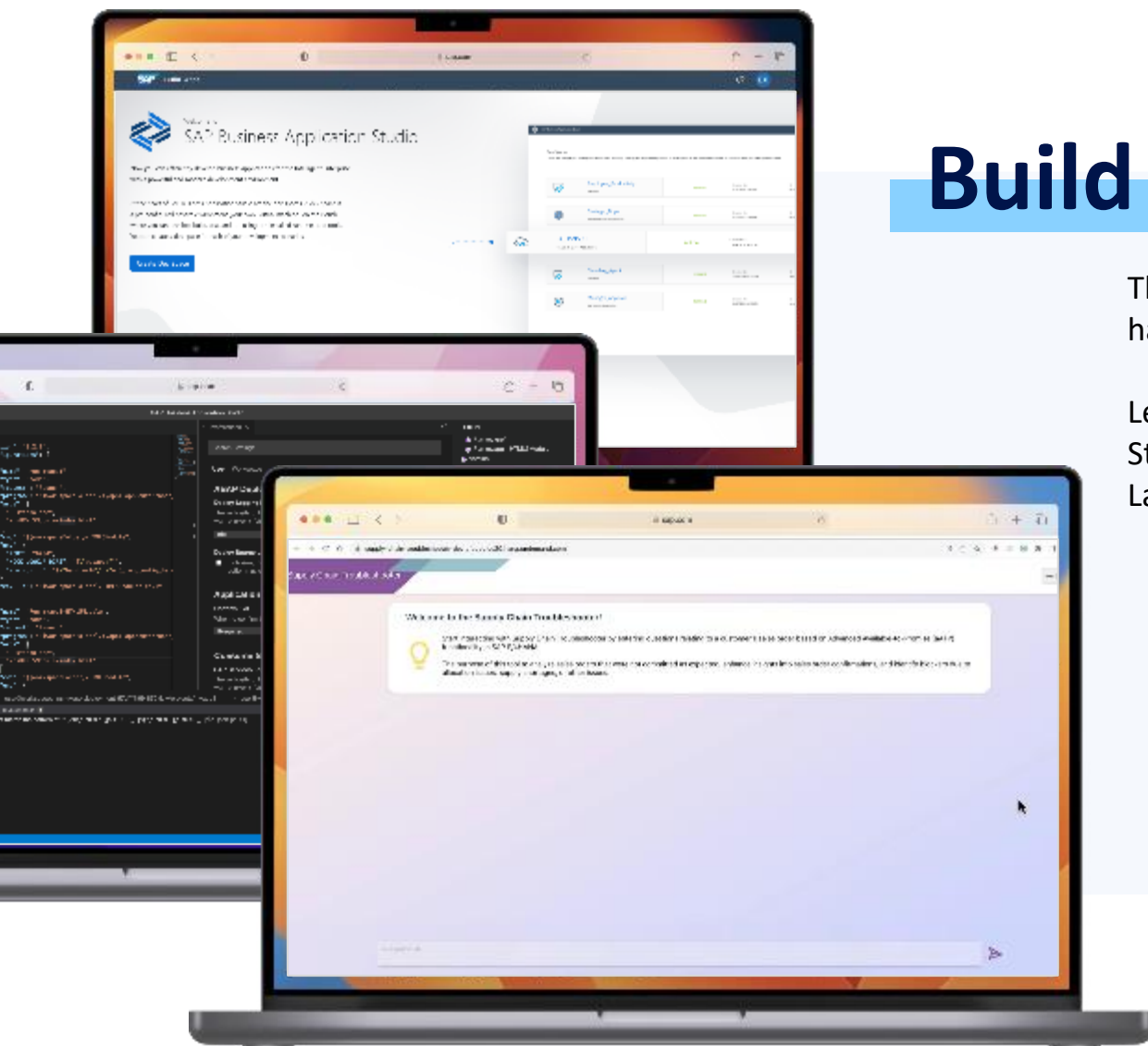


Integration



AI





Build and Innovate

The frontend application has been built as a CAP application.

Leveraging the Business Application Studio (BAS) utilizing CAP's Large Language Model (LLM) plugin.

App Dev

Automation

Integration

AI

Connect and Simplify

The APIs in SAP S/4HANA Advanced Available-to-Promise (aATP) are exposed to the application and being called leveraging SAP API Management, a capability of SAP Integration Suite.

App Dev

Automation

Integration

AI

Optimize and Automate

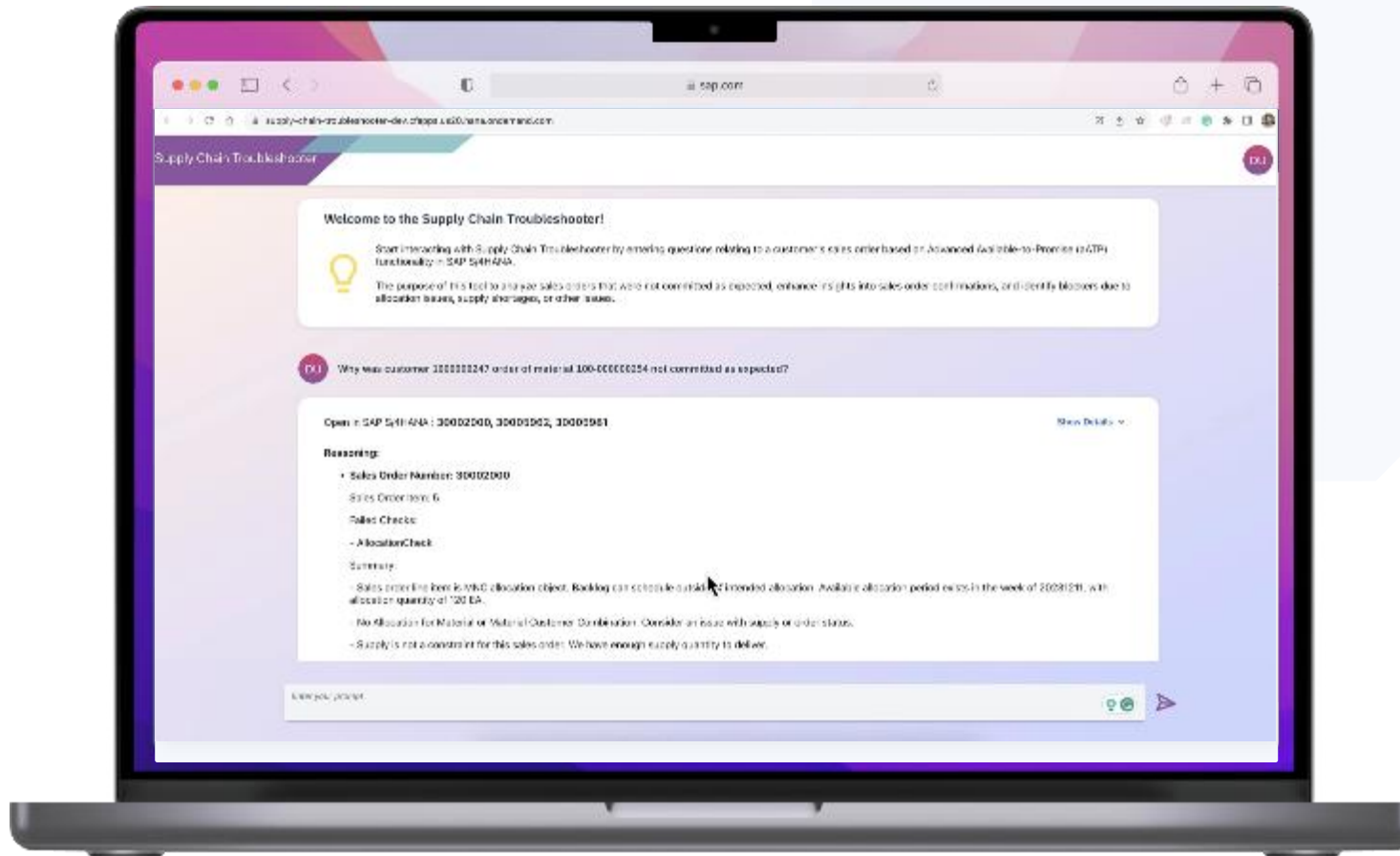
The core of the application is accessing Open AI's GPT Generative AI model in Microsoft Azure, leveraging the Generative AI Hub in SAP BTP.

App Dev

Automation

Integration

AI



“

The Supply Chain Troubleshooter transforms a critical AMD process within our Supply Chain Operations team by automating checks, increasing transparency and order commitment efficiency. The solution will allow us to navigate supply chain disruptions and keep our customer satisfaction high.

Preetish Pandit
Director, Supply Chain & Reporting Systems

”

Parts of SAP BTP that helped to succeed...

App Dev



Automation



Integration



AI



**The whole is greater
than the sum
of its parts.**

Aristotle



Build on a **future-proof** foundation.

Strategy & Outlook 2024

SAP BTP – Our continuous focus in 2024 and beyond



Business centricity as the “**B**” in **SAP BTP** is based on **unique qualities** that accelerate outcomes for our customers and partners.

How business centricity accelerates customer and partner outcomes

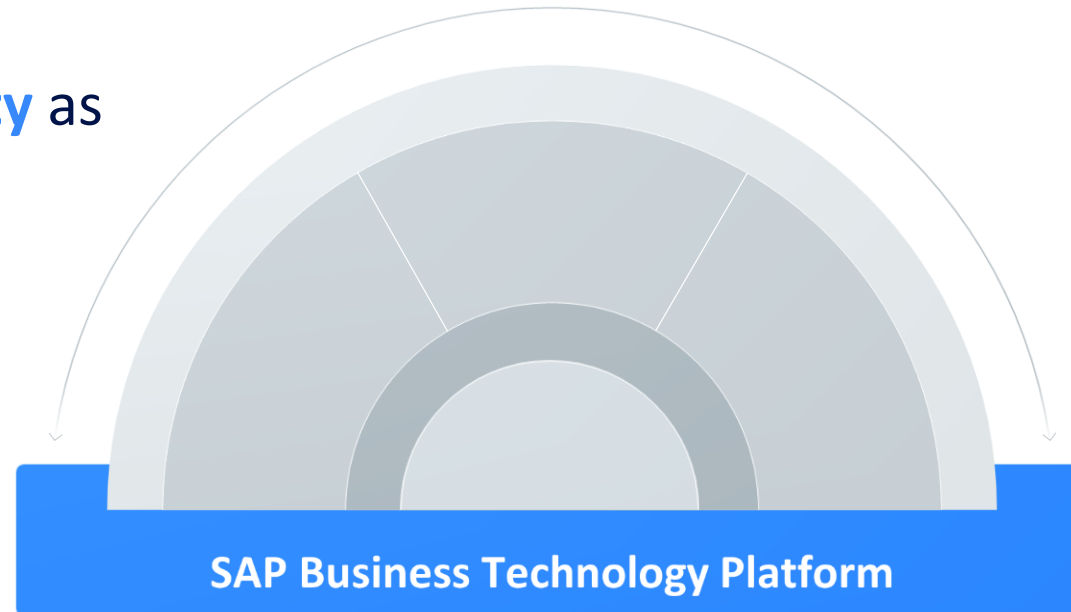


- Optimized Time-to-Value
- Increased efficiency
- High quality business outcomes
- Covering end-to-end scenarios
- Ease of use for business users

Pairing foundational qualities with a clear differentiation



Business centricity as
our unique value



Business Centricity

Always-on business context

- Semantic Data Access
- Aligned Integration & Extension
- AI-based Context Awareness

Business-friendly experience

- Business User Accessibility
- Seamless Application & Platform Integration

Accelerated business outcomes

- Prebuilt Business Accelerators
- Actionable Use cases
- Automation & Smart Support

A rock-solid foundation paired with an unprecedented business focus



Always-on business context

- Semantic Data Access
- Aligned Integration & Extension
- AI-based Context Awareness

Business-friendly experience

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- Seamless Application & Platform Integration

Accelerated business outcomes

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Foundational Qualities

Enterprise-Grade

Unified

Open

A rock-solid foundation paired with an unprecedented business focus



Business Centricity

Always-on business context

Business-friendly experience

Accelerated business outcomes

Foundational Qualities

Enterprise-Grade

- Built-in security and compliance
- Reliability, performance, and scalability
- Simple and intuitive user experience
- Lifecycle management

Unified

Open

A rock-solid foundation paired with an unprecedented business focus



Always-on business context

Business-friendly experience

Accelerated business outcomes

Foundational Qualities

Enterprise-Grade

- Built-in security and compliance
- Reliability, performance, and scalability
- Simple and intuitive user experience
- Lifecycle management

Unified

- Unified platform for innovation along comprehensive business processes
- Smooth integration between SAP BTP services
- Harmonized operations and UI

Open

A rock-solid foundation paired with an unprecedented business focus



Always-on business context

Business-friendly experience

Accelerated business outcomes

Foundational Qualities

Enterprise-Grade

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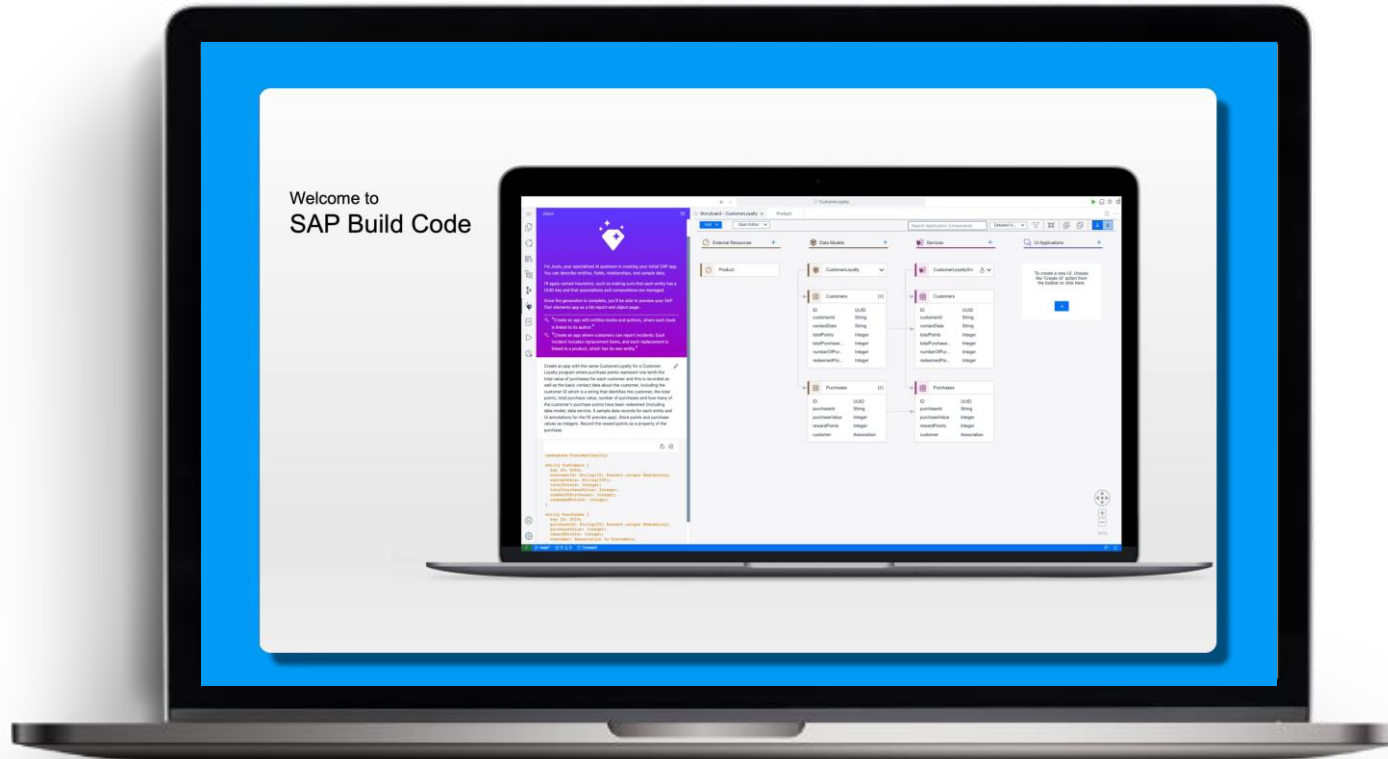
Open

- Embracing open-source technology
- Interoperability with 3rd-party applications and data
- Growing ecosystem of strategic partners



Highlights 2024

Strategy & Outlook 2024



**Generate
and create**

code, data models,
and test data

Enhance

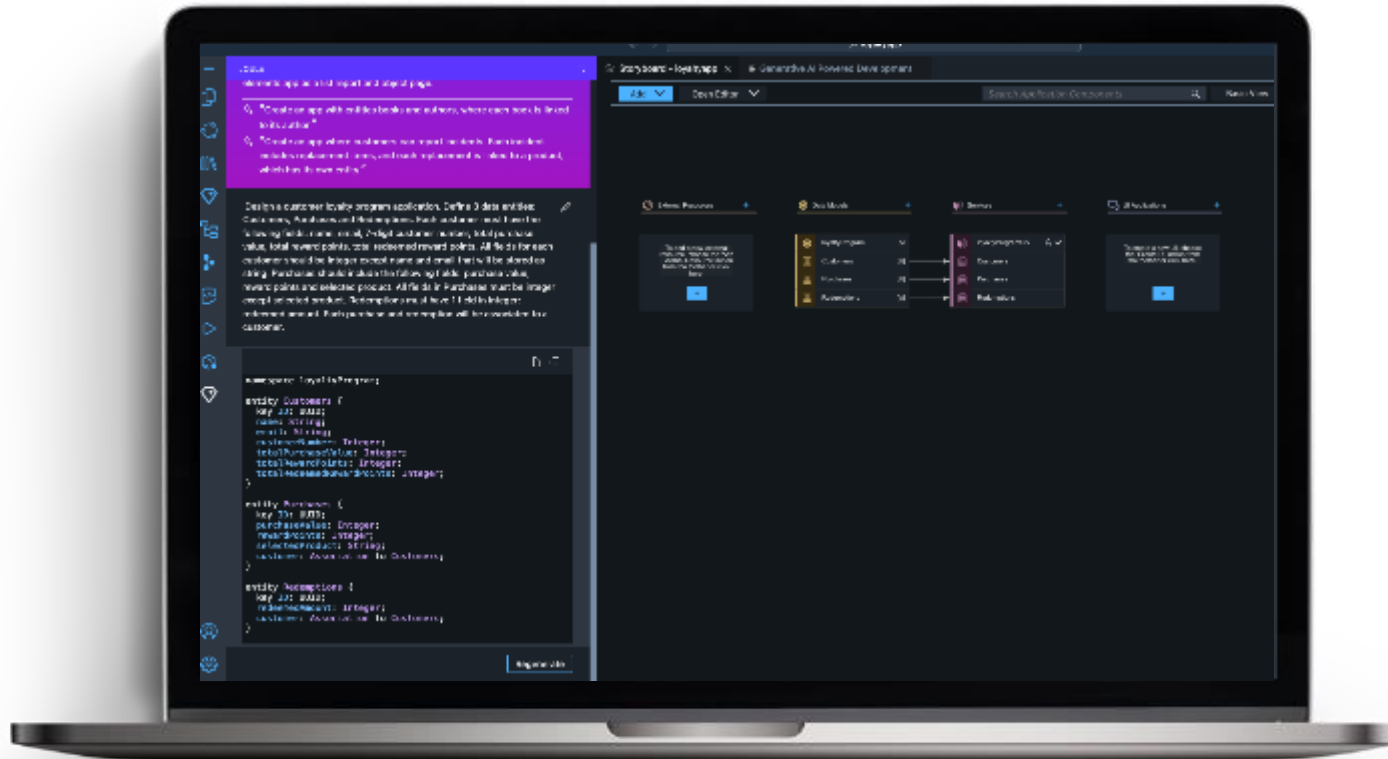
productivity and streamline
the development process

Simplify

development

SAP Build Code – AI-based code generation

GA Q1/2024



Generate and create

code, data models, and test data

Enhance

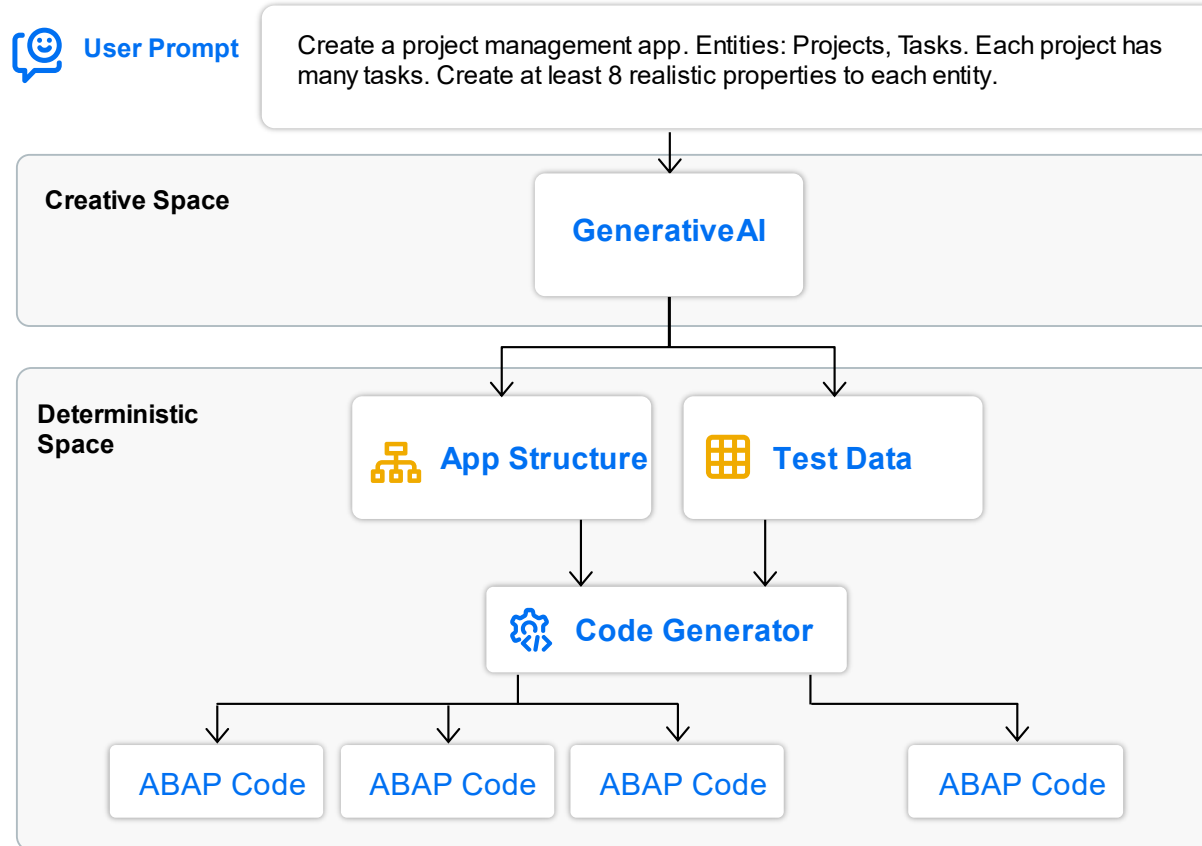
productivity and streamline the development process

Simplify

development

AI-based code generation for SAP BTP, ABAP environment

GA Q2/2024



Accelerate

creation of ABAP Cloud applications including test cases and data

Support

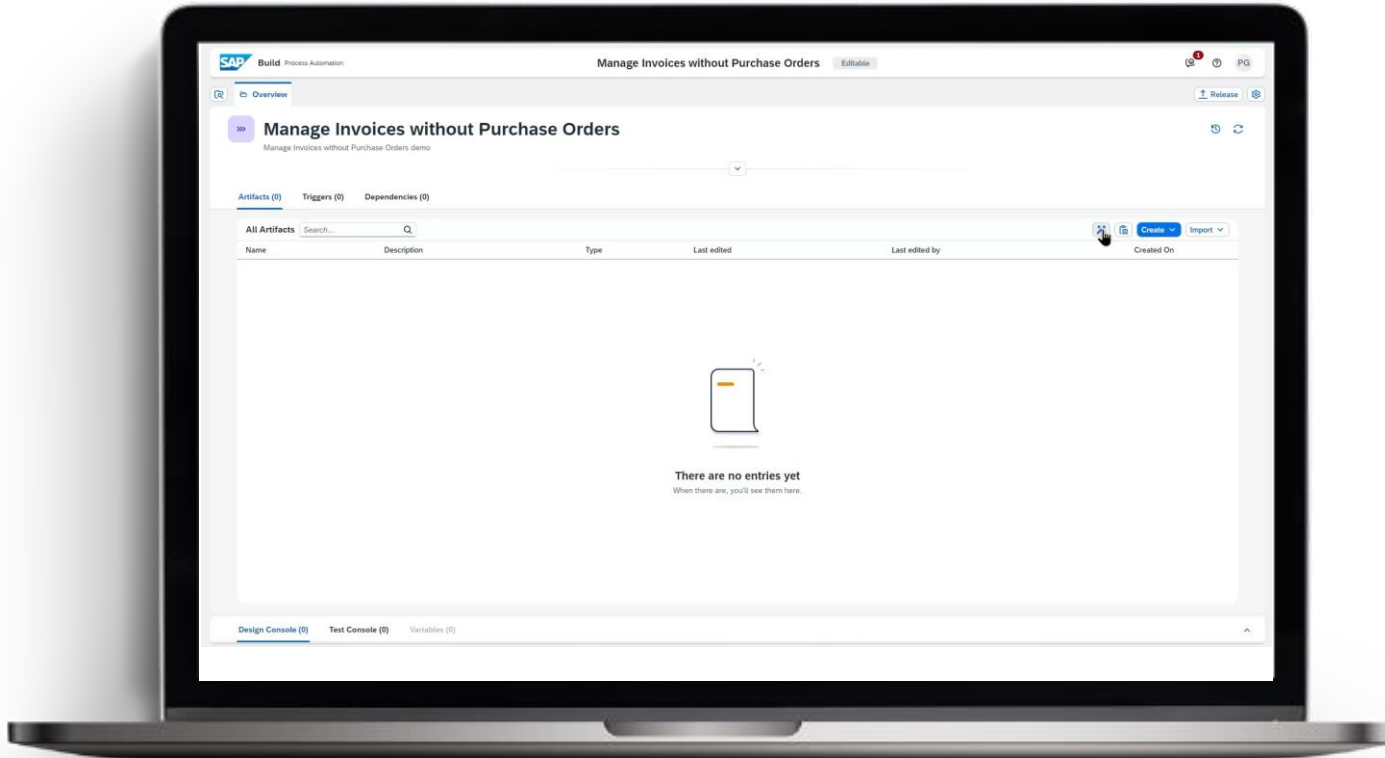
transformation of classic ABAP code into ABAP Cloud

Empower

developers to infuse AI into business scenarios

Generative AI in SAP Build Process Automation

GA Q2/2024



Faster

modeling in SAP Build
Process Automation

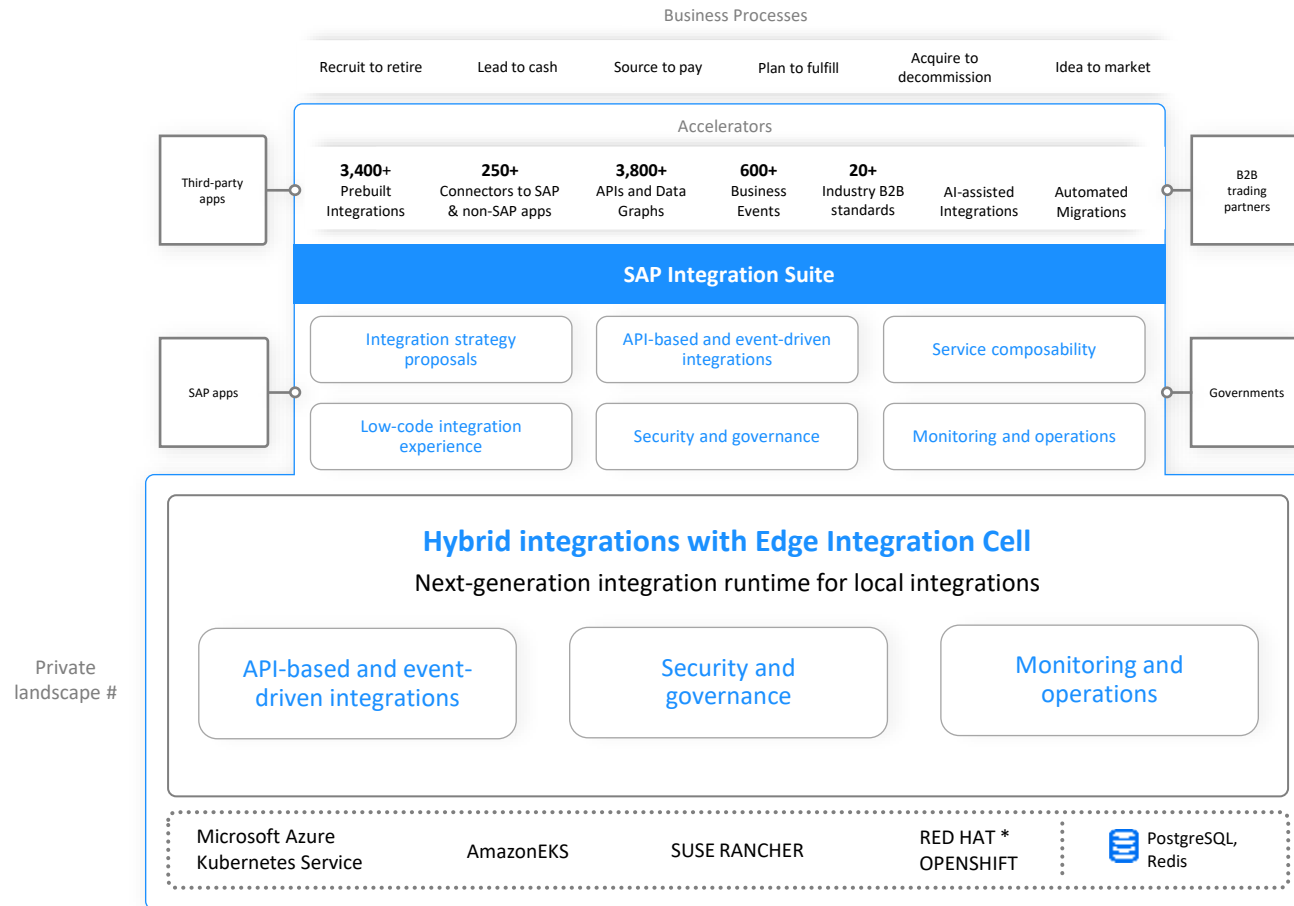
Improved

processes and
automation quality

Reduced

design to execute time

Edge Integration Cell



Flexible deployment

in customer environments

Data compliance and governance

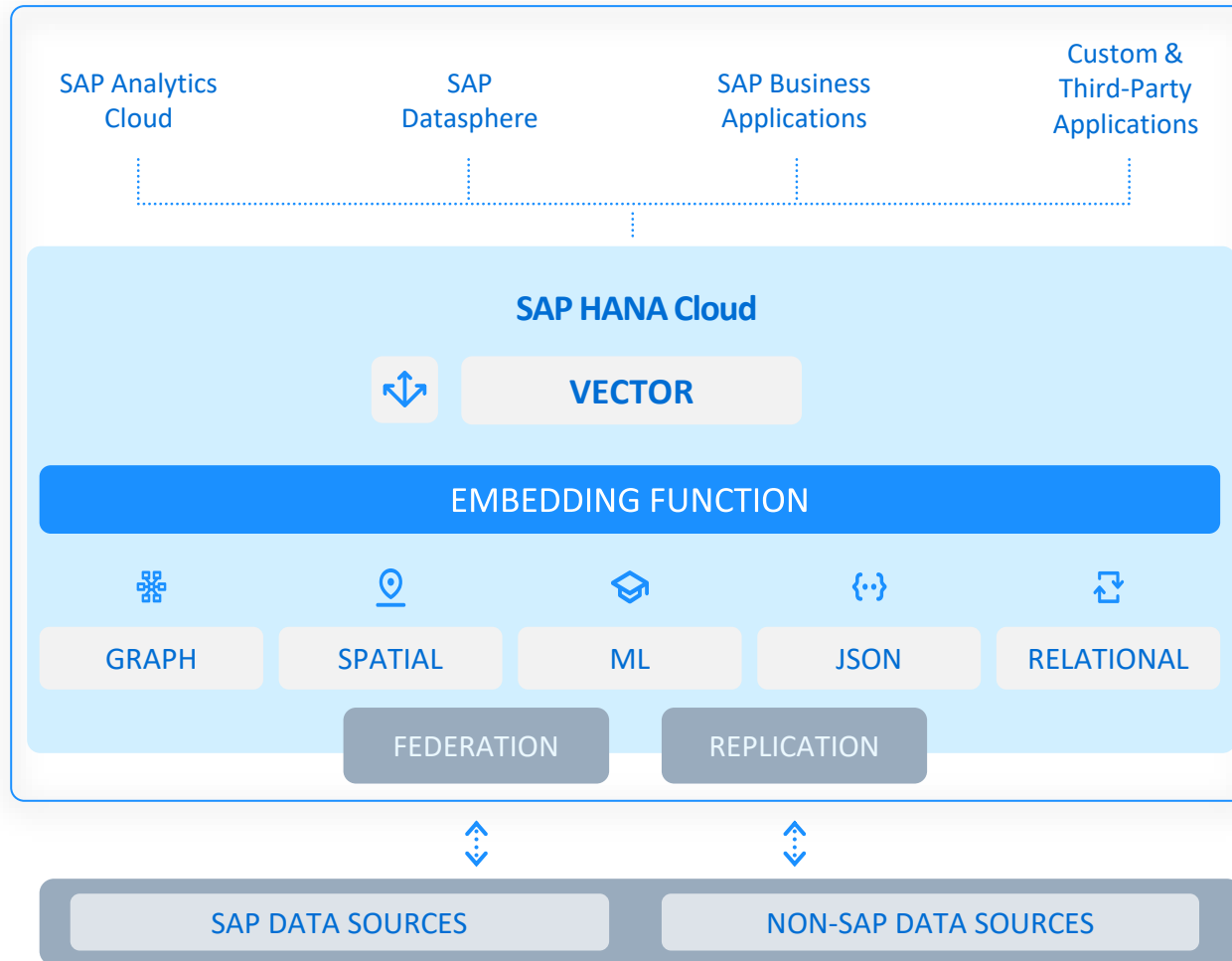
by processing data locally

Operations

(installation, software updates, and so on) managed by customer

Vector Database Capabilities in SAP HANA Cloud

GA Q1/2024



Store

high-dimensional vectors
along enterprise data



Run fast

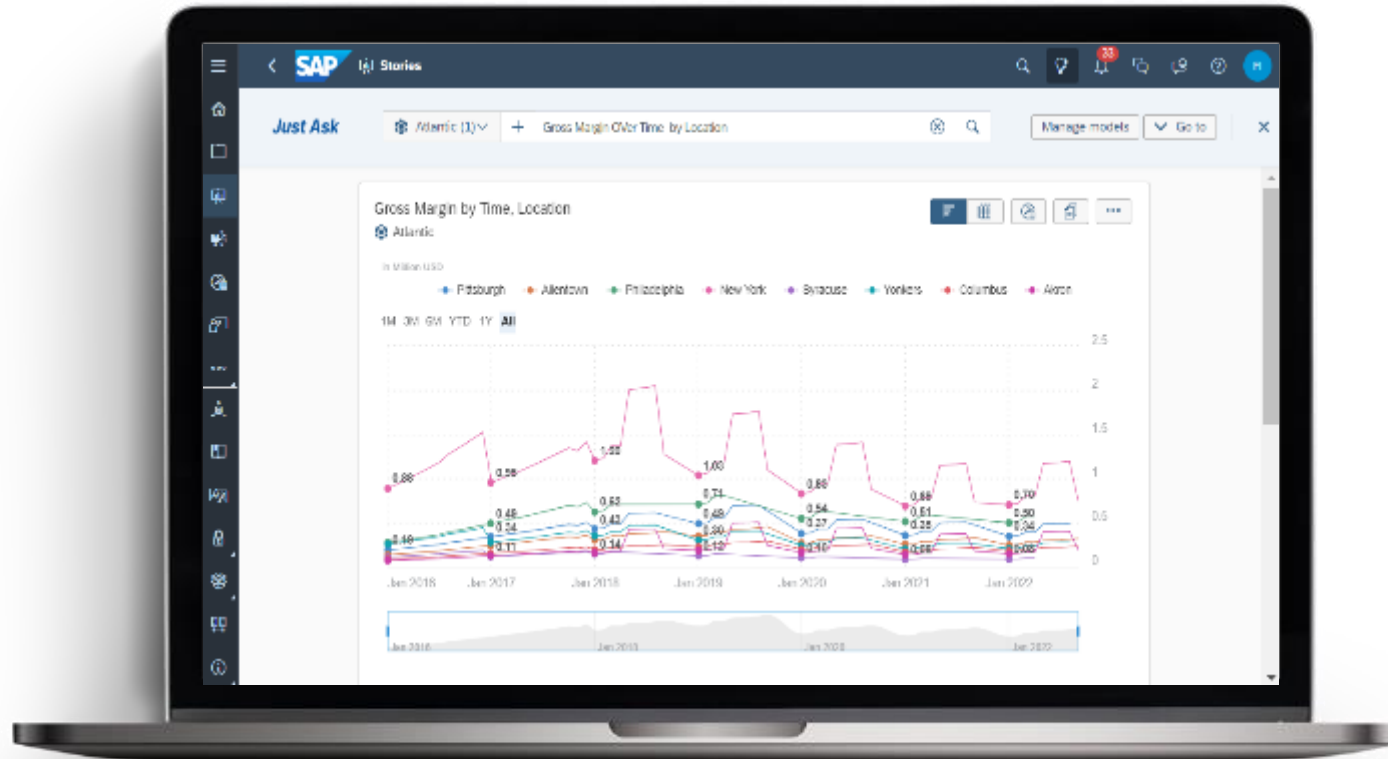
Vector searches using SQL



Combine results

from vector-based similarity search
with other SQL operations

AI-powered queries for analytics in natural language



Accelerate

access to relevant insights

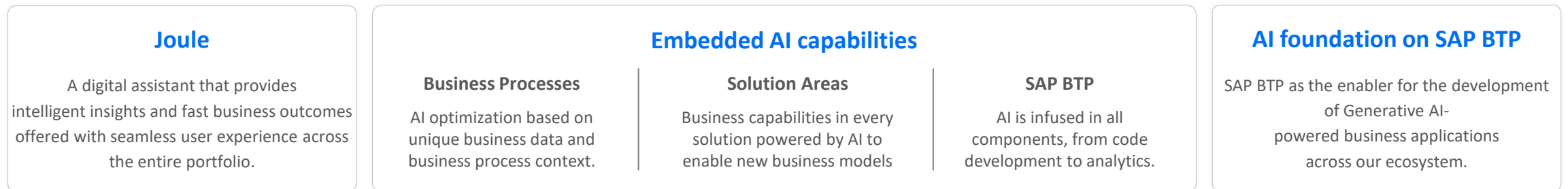
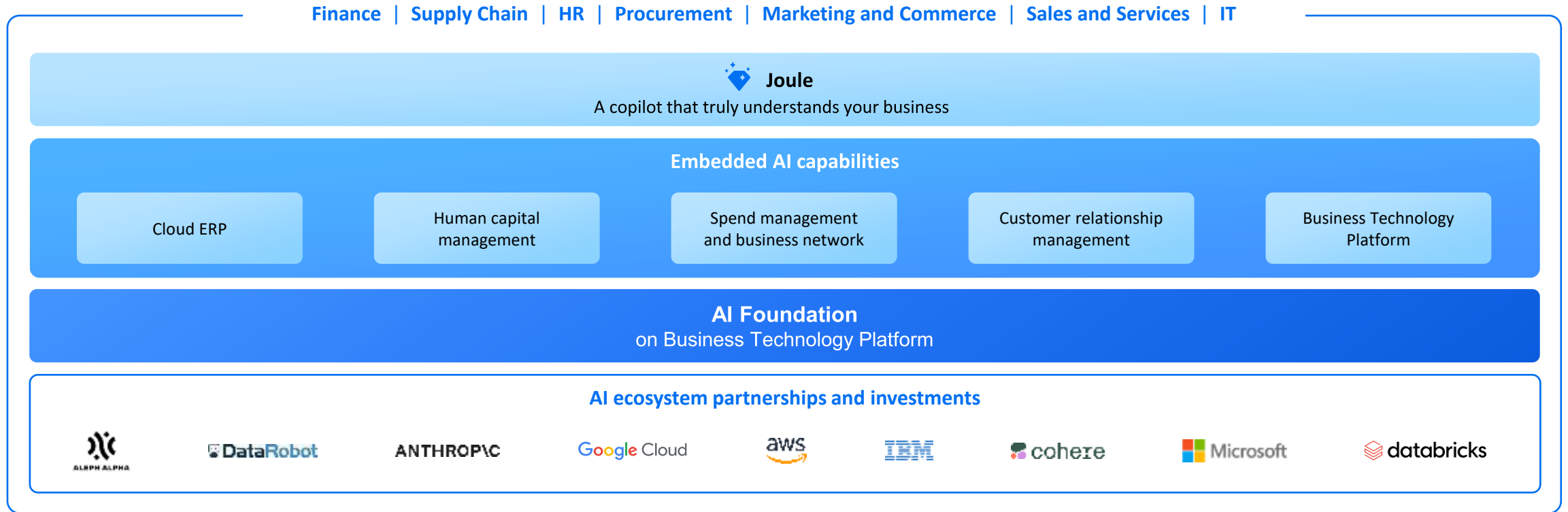
Increase

analytics adoption for the
70% occasional users

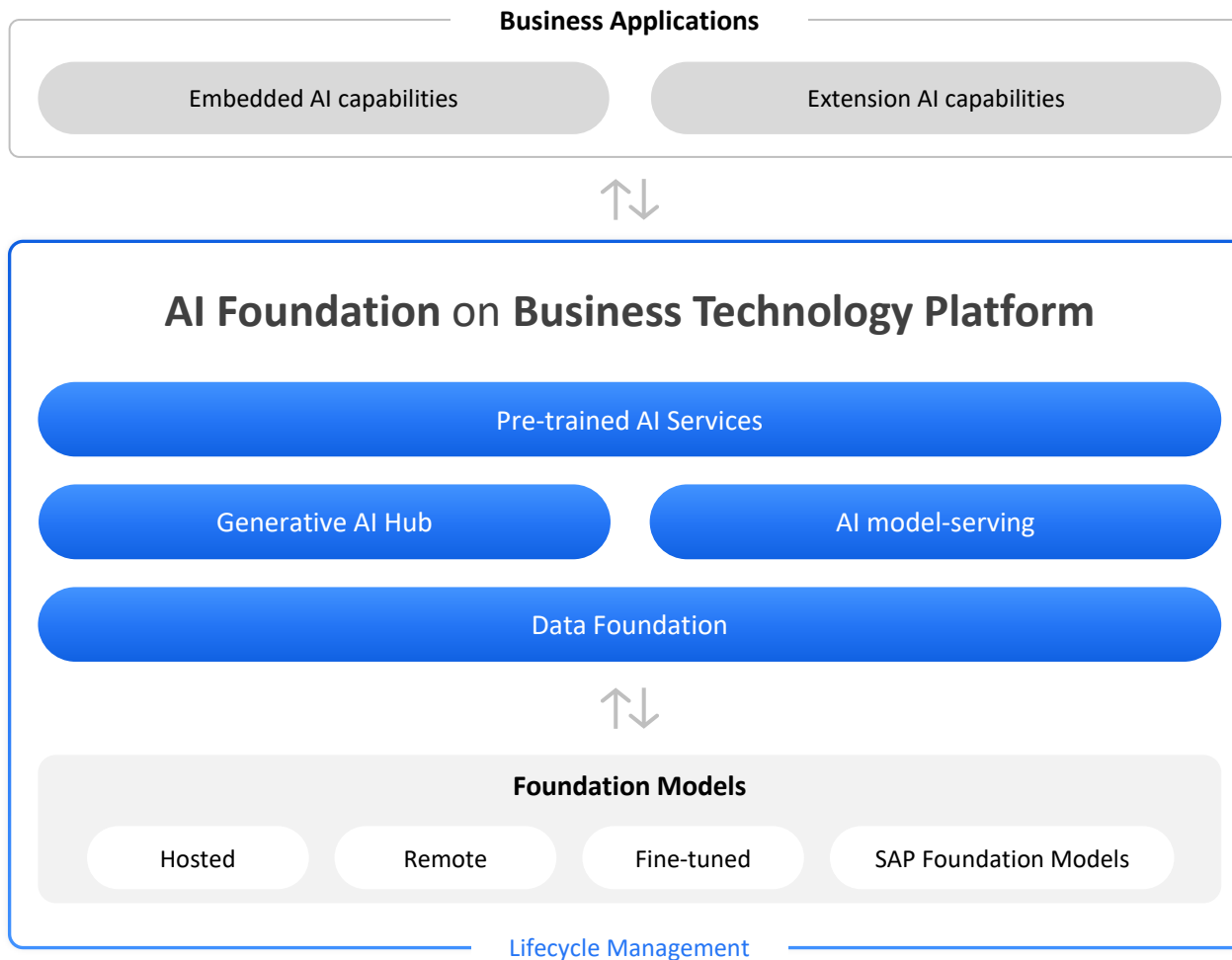
Empower

users to answer their
business questions

SAP Business AI approach



AI Foundation: Accelerate development of generative AI solutions



Orchestrate

multiple models



Tooling

for prompt engineering and other capabilities



Connect

vector capabilities in SAP HANA Cloud

Top Resources to enable learning and adoption of SAP BTP for Enterprise Architects

Where to go and what to do

Enhance your journey with SAP BTP

Tools & Resources

2024/25

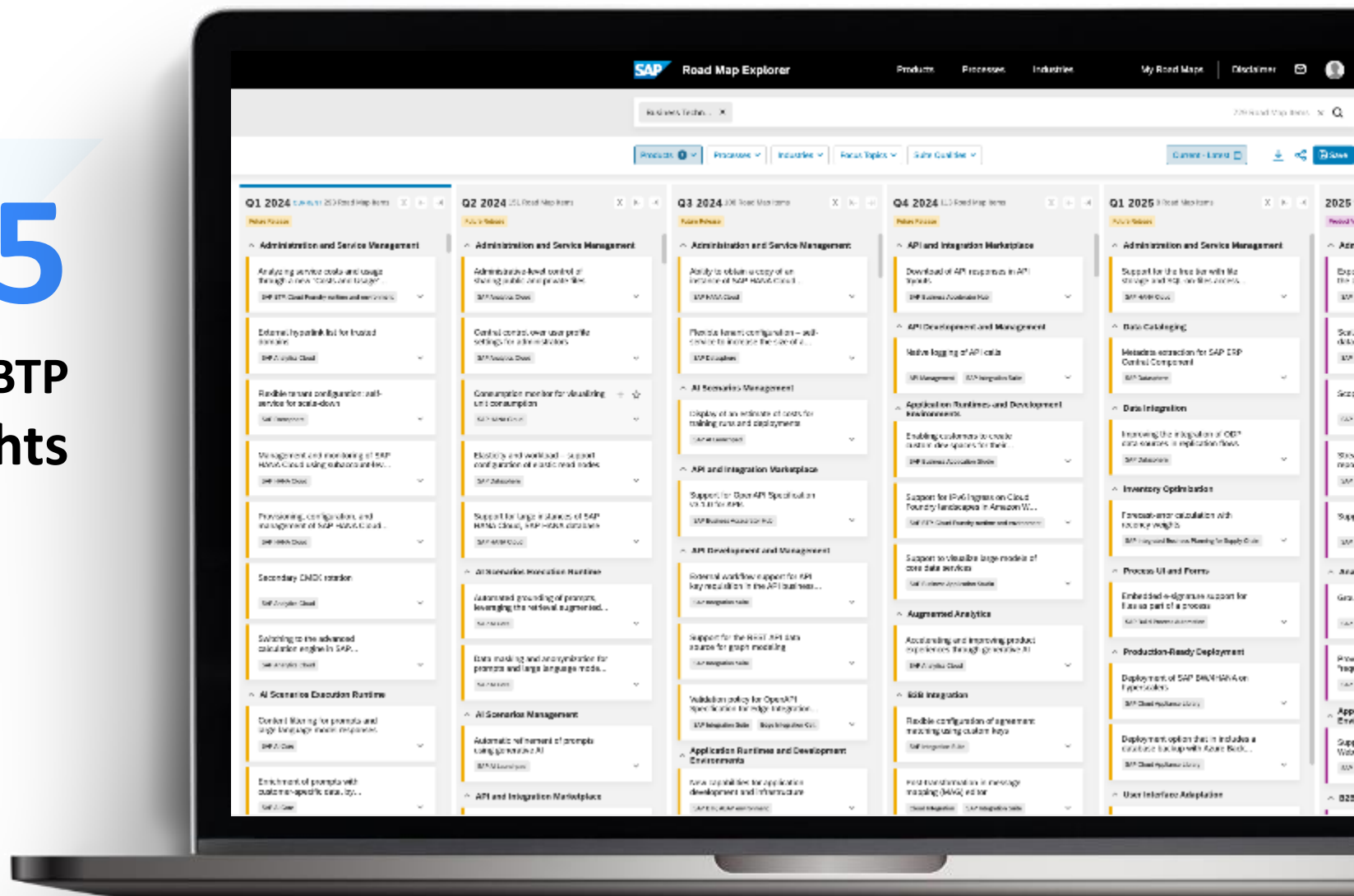
SAP BTP

Innovation Highlights

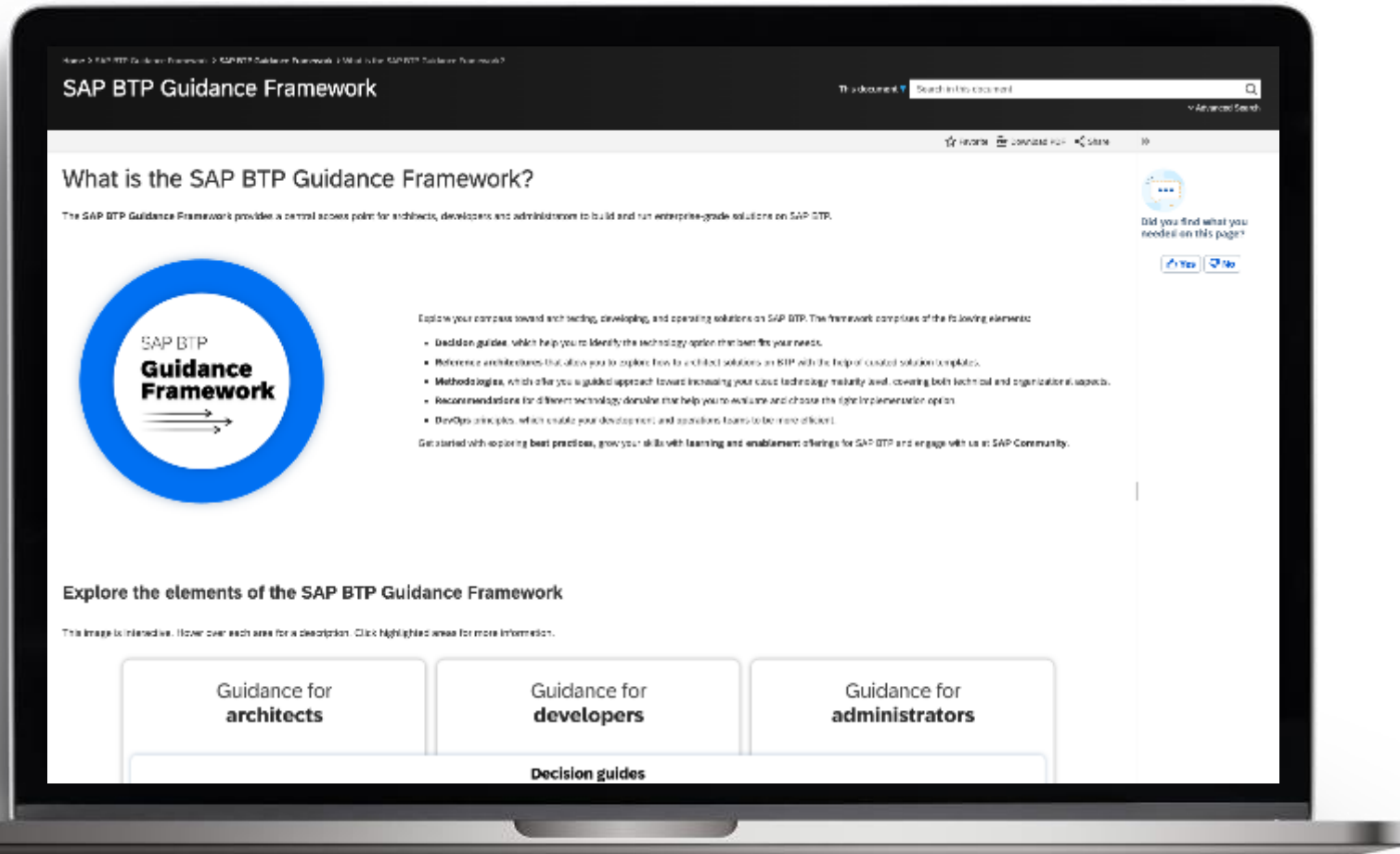
SAP Road Map Explorer



Scan this code or click
[here](#) to learn more



Explore our SAP BTP Guidance Framework



SAP BTP Guidance Framework

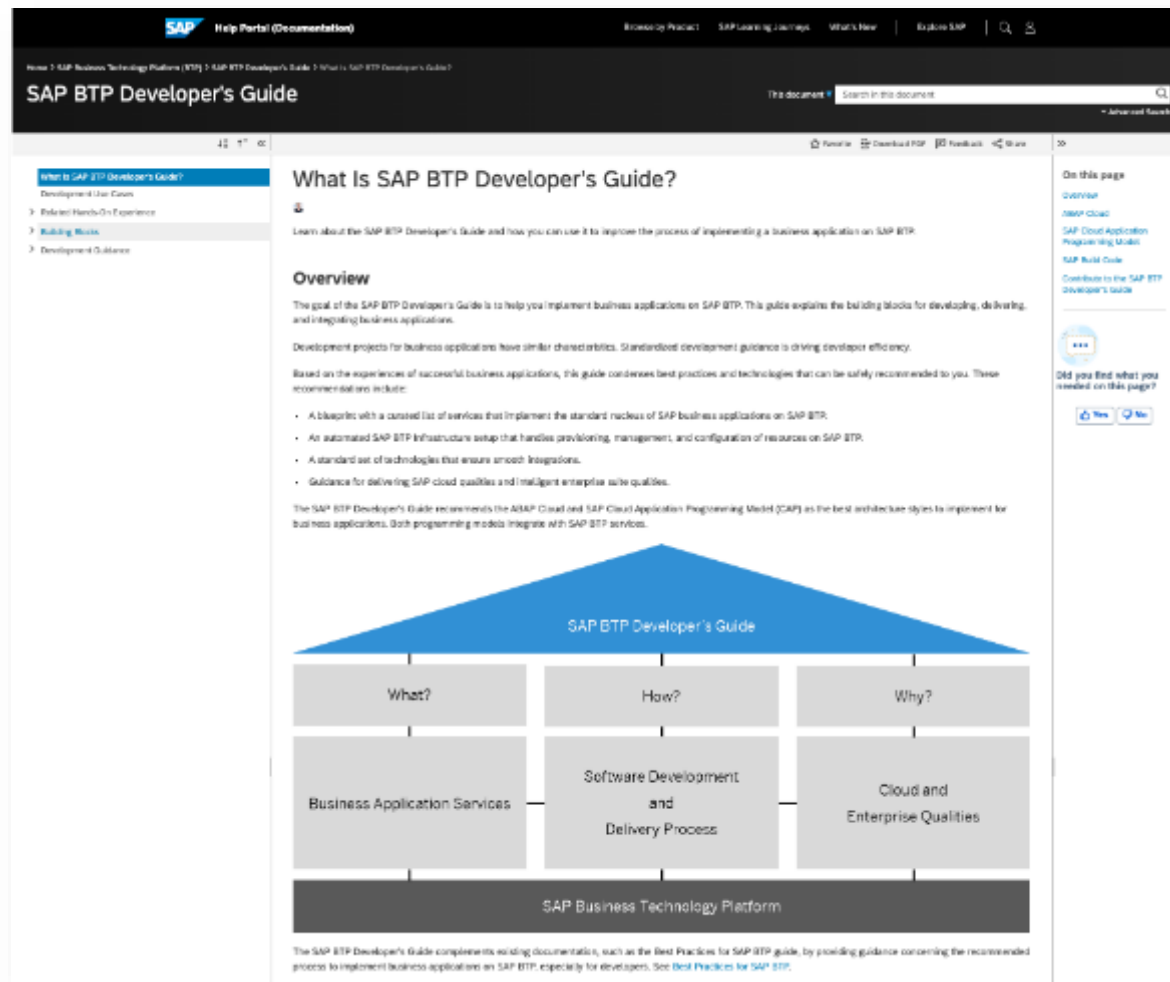
Central access point for **architects, developers and administrators** to build and run enterprise-grade solutions on SAP BTP

- The framework comprises of the following elements:
 - Decision guides
 - Recommendations
 - Reference Architectures
 - Methodologies
 - DevOps



Scan this code or click [here](#) to learn more

SAP BTP Developer's Guide



The **SAP BTP Developer's Guide** offers developer guidance to software developers on how to implement business applications as an integrated part of SAP software on SAP BTP.

It consists of:

- Architecture blueprint with a curated list of services implementing business applications on SAP BTP
- Description of the software development and delivery processes
- Instructions on how to deliver cloud and suite qualities

SAP BTP Developer's Guide



Scan this code or click [here](#) to learn more

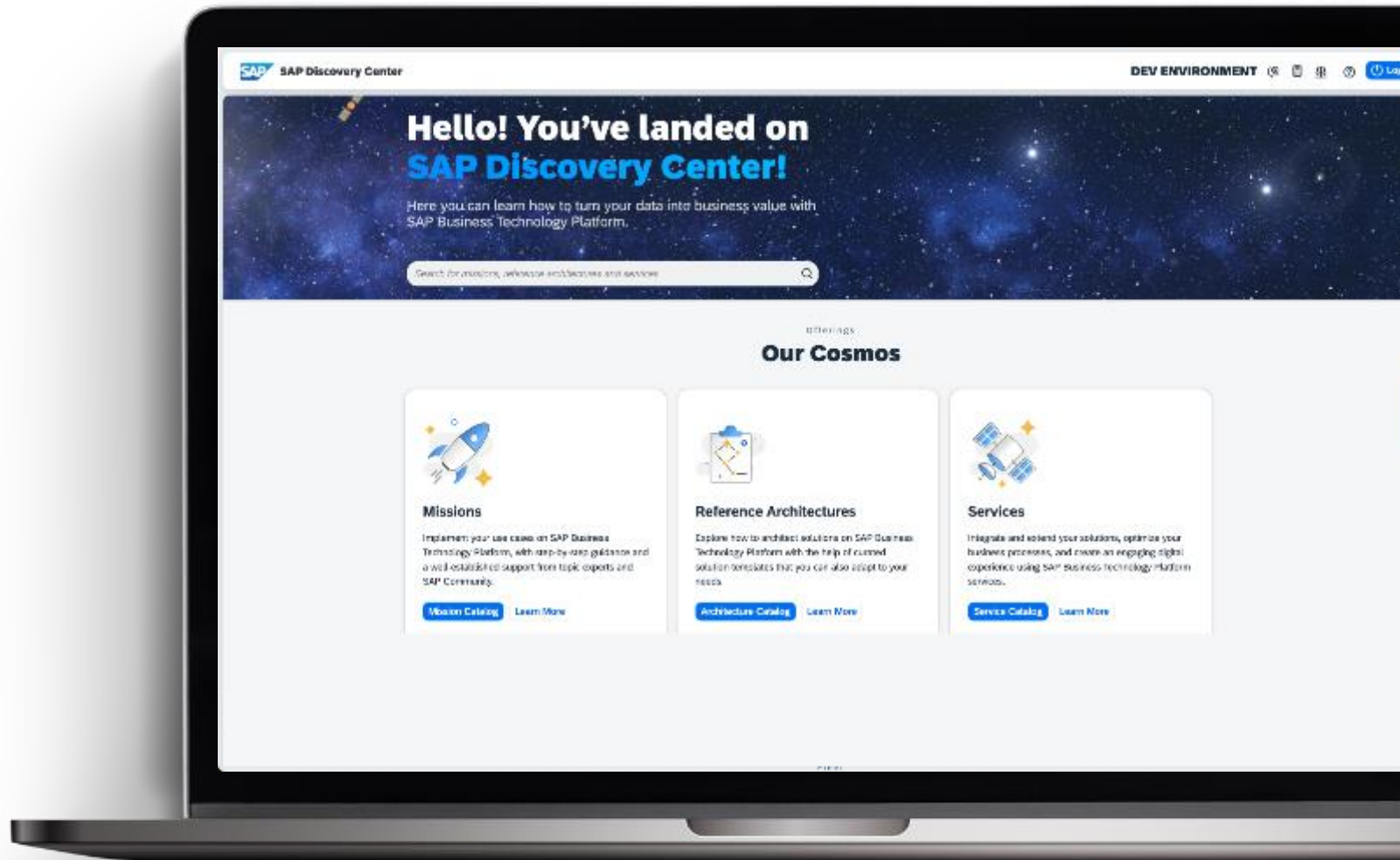
SAP Discovery Center

SAP Discovery Center

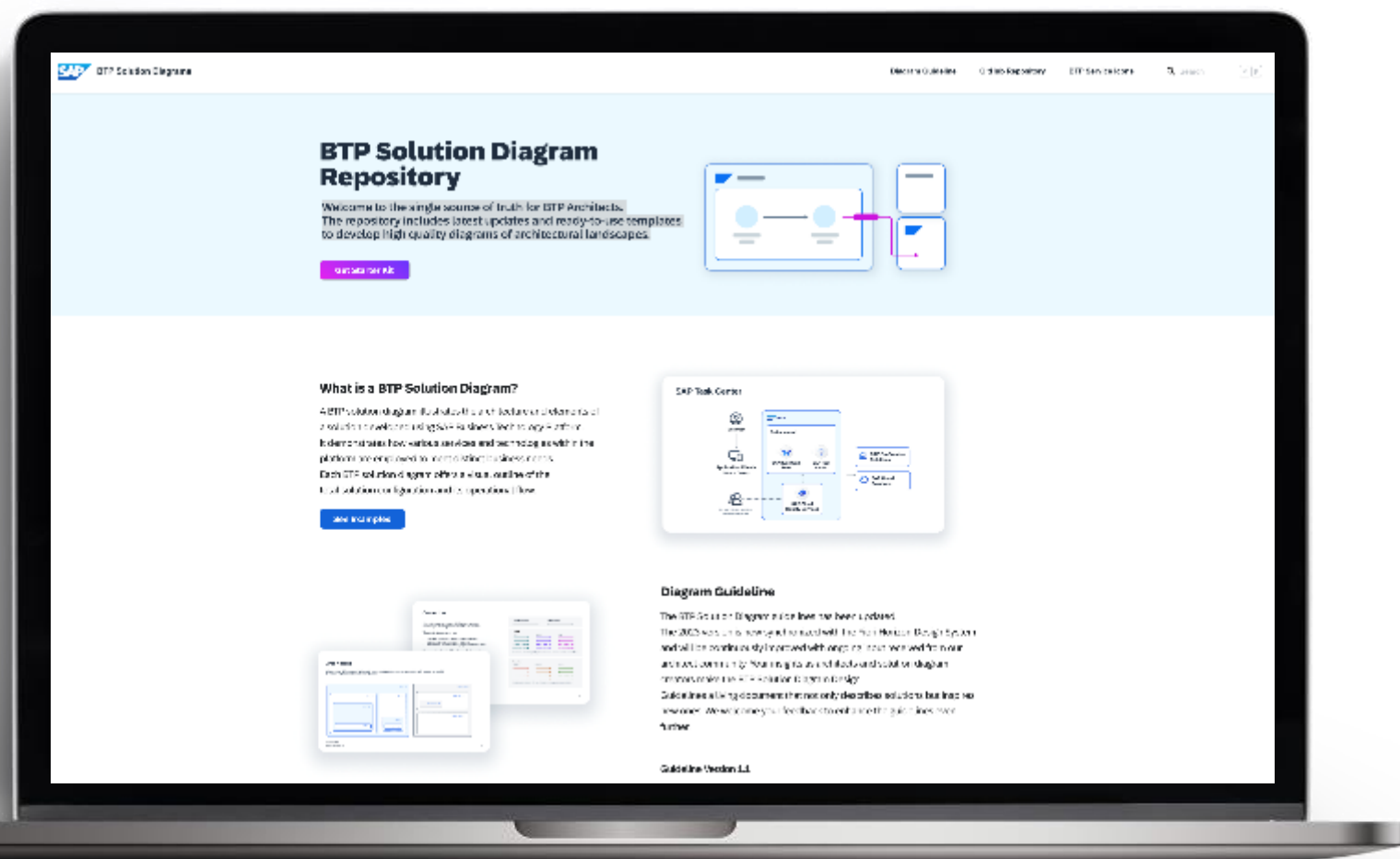
- Realize the use cases as a mission
- Be inspired by [Customer Stories](#)
- Explore how to architect solutions
- Adapt the architecture
- Analyze cost with [estimator](#)
- Gain more insights into [Roadmaps](#) and [Service plans](#)



Scan this code or
click [here](#) to learn more



Take advantage of our SAP BTP Solution Diagram Repository



SAP BTP Solution Diagram Repository

Welcome to the single source of truth for BTP Architects. The repository includes latest updates and ready-to-use templates to develop high quality diagrams of architectural landscapes.

The repository comprises the following elements:

- A central entry point for SAP BTP Solution Diagrams
- SAP BTP SD Diagram guideline
- SAP BTP Service Icons & examples to jumpstart the creation of BTP-based solution diagrams



Scan this code or
click [here](#) to learn more

Wrap Up

What Enterprise Architects need to know:

It is the **foundation of the SAP portfolio** and the **business-centric platform for customers and partners** to innovate and transform.

With SAP BTP we're not just advancing technology
– we're **shaping the future of business.**

Where to Find More Information

<https://discovery-center.cloud.sap/index.html>

The source of information on the different areas of the Business Technology Platform (BTP)

<https://help.sap.com/learning-journeys/overview?search=BTP>

The main reference for learning material on Business Technology Platform

https://learning.sap.com/learning-journeys/discover-sap-business-technology-platform?url_id=text-gl-lh

Introductory Course on BTP

<https://help.sap.com/docs/sap-btp-guidance-framework/guidance-framework/what-is-sap-btp-guidance-framework>

SAP BTP Guidance Framework

<https://help.sap.com/docs/btp/btp-developers-guide/what-is-btp-developers-guide>

SAP BTP Developers Guide

<https://sap.github.io/btp-solution-diagrams/>

New Repository for BTP Solution Diagrams

Key Points to Take Home

- Understanding the capabilities and design principals of SAP BTP
- Enterprise Architects can put SAP BTP Knowledge to practical use
- SAP Discovery Center is a top entry point to gain experience around the BTP platform
- There are many courses on Business Technology Platform depending on your persona – Operations/Developer/Basis etc.
- Business Technology Platform is the key enabler for your ERP transformation.

Thank you! Any Questions?

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Please remember to
complete your session
evaluation.



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growing SAP
membership group
with more than
800,000 members
worldwide.**



Appendix

My SAP Learning Journeys

All SAP Learning Journeys

All SAP Learning Journeys

30 Results

BTP



Product Categories



Roles



SAP Learning Journey

Build side-by-side extensions on SAP BTP

Available for
Developer

SAP Learning Journey

Deliver Side-by-Side Extensibility based on SAP
BTP, Kyma RuntimeAvailable for
Administrator, Architect, Consultant, Developer

SAP Learning Journey

Discovering DevOps with SAP BTP

Available for
Administrator, Consultant, Developer

SAP Learning Journey

Learning the Basics of ABAP Programming on
SAP BTP

SAP Learning Journey

SAP BTP - Provisioning and Administration



SAP Learning Journey





SAP BTP, ABAP Environment

[1. Link to BTP Learning Journey](#)

Source: SAP

LEARNING JOURNEY

Discovering SAP Business Technology Platform

 8 Units  4 hrs  Free  Record of Achievement

Discover SAP Business Technology Platform
Fundamentals and Concepts

Discover SAP Business Technology Platform



learning.sap.com

Overview

This learning journey provides you with an Introduction to SAP Business Technology Platform and the Intelligent Enterprise strategy

Learning objectives

After completing this learning journey, developers, consultants, and administrators will have acquired foundational knowledge of SAP Business Technology Platform. You will discover the options to integrate and extend applications using intelligent technologies as well as incorporate analytics, database administration, and data management. You will also gain an insight into security aspects and sustainability management.

Your current experience in this topic

Beginner

Intermediate

Advanced

Roles

Consultant, Developer, Administrator

Prerequisites

Basic knowledge about IT landscapes

[Start learning](#)