



# Exploring the Landscape of SAP Business AI: Strategy, Use Cases, and Architecture

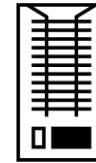
**Mikal Netteberg, SAP**

**SAP**insider  
2023

# A New Revolution...

New technology **excites...**  
But correctly applied  
technology **revolutionizes**

Computing  
(1950)



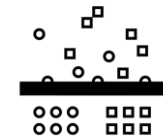
PC  
(1980)

Internet  
(1970s)



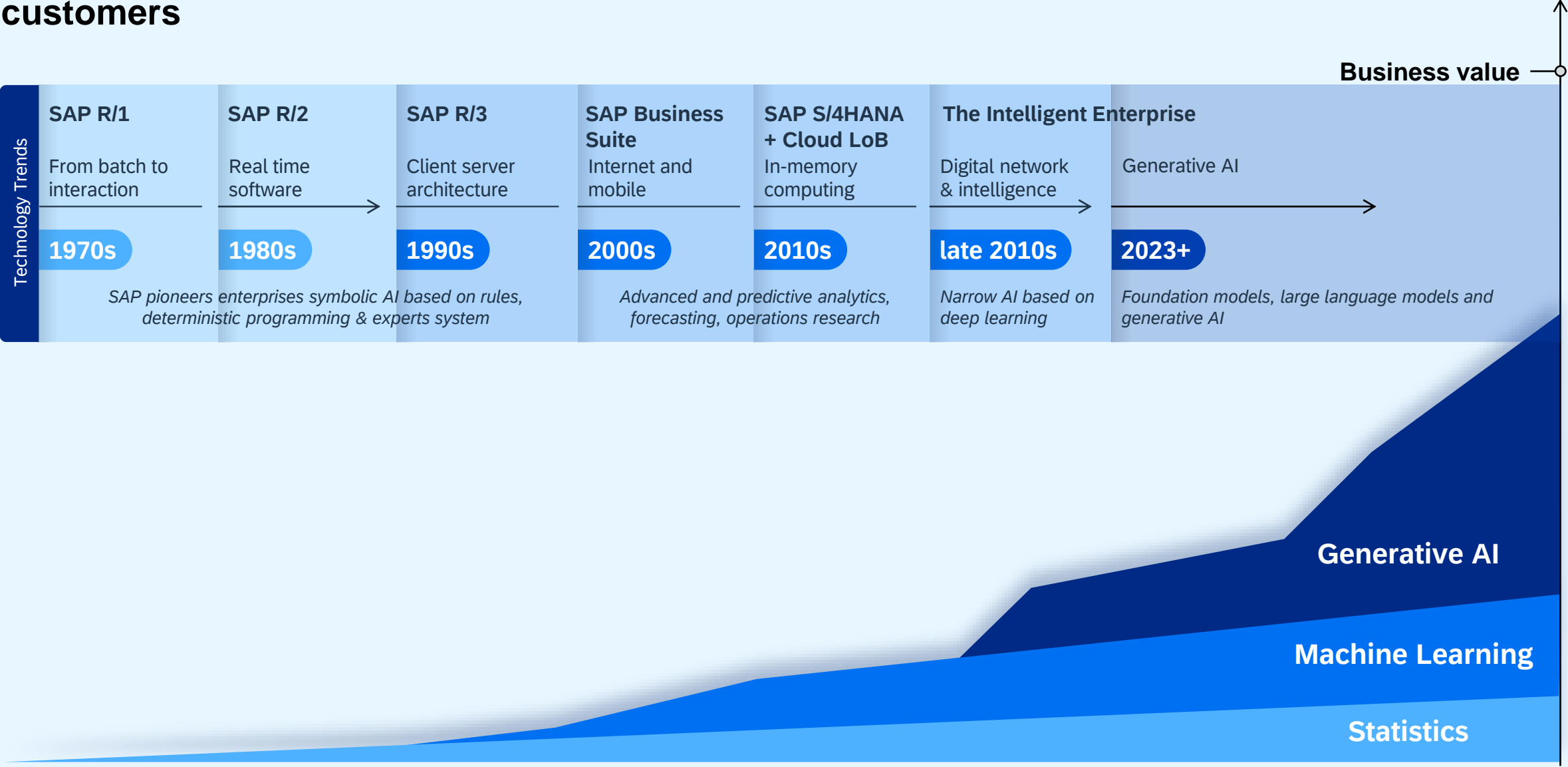
Web Browser  
(1990)

Deep Learning  
(2012)



Generative Models  
(2023)

# Recent technology advancements mark a paradigm shift in how SAP will deliver value to customers



## SAP AI momentum

**24.000+  
customers**

**>\$1B** investment via  
venture capital

**\$6.1B** in annual total  
R&D investment

**3** direct investments in  
Generative AI leaders



ALEPH  
ALPHA

ANTHROPIC



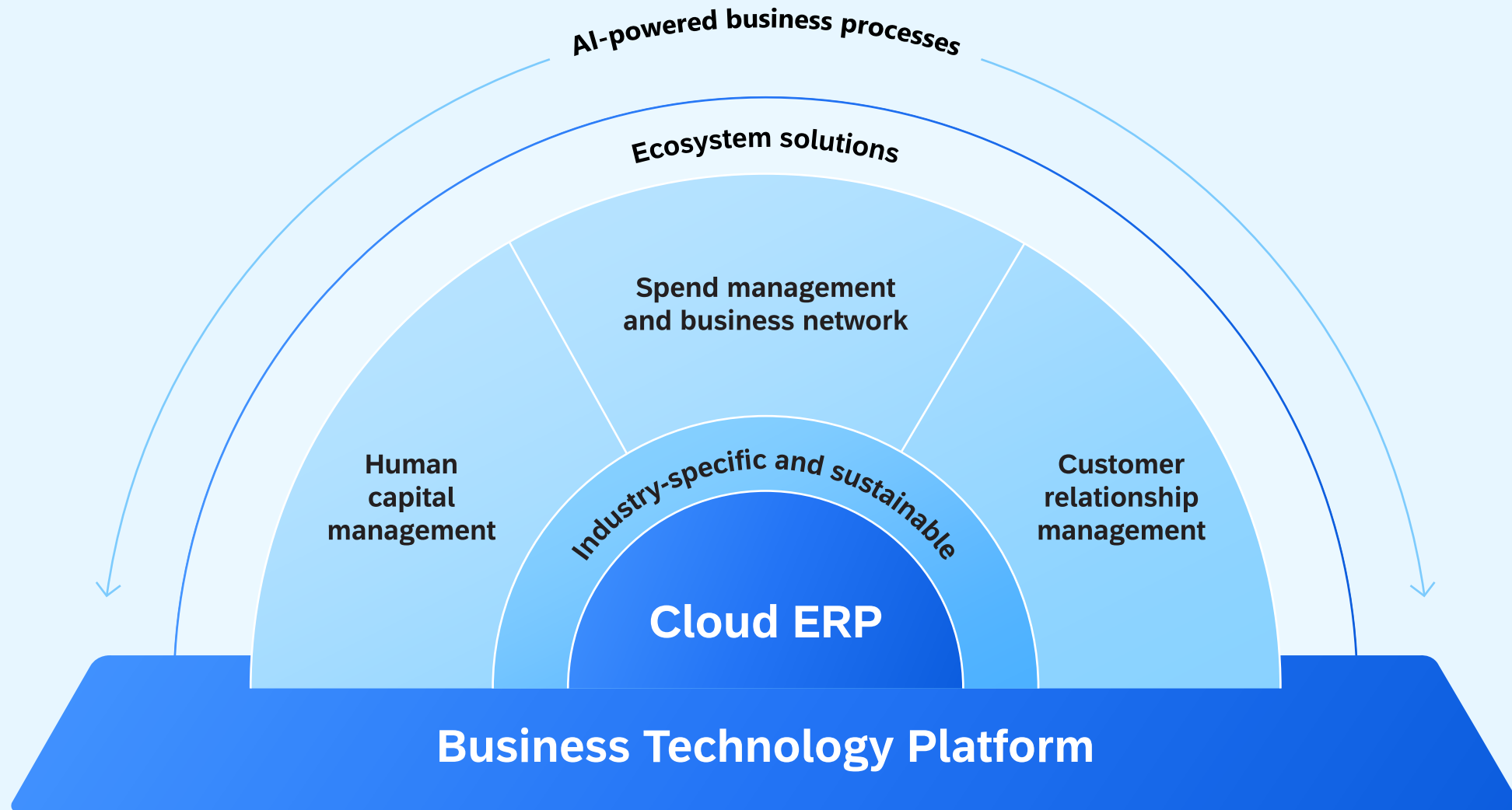
# The Future with **SAP** **Business AI**

**The most important business  
insights delivered with perfect clarity**

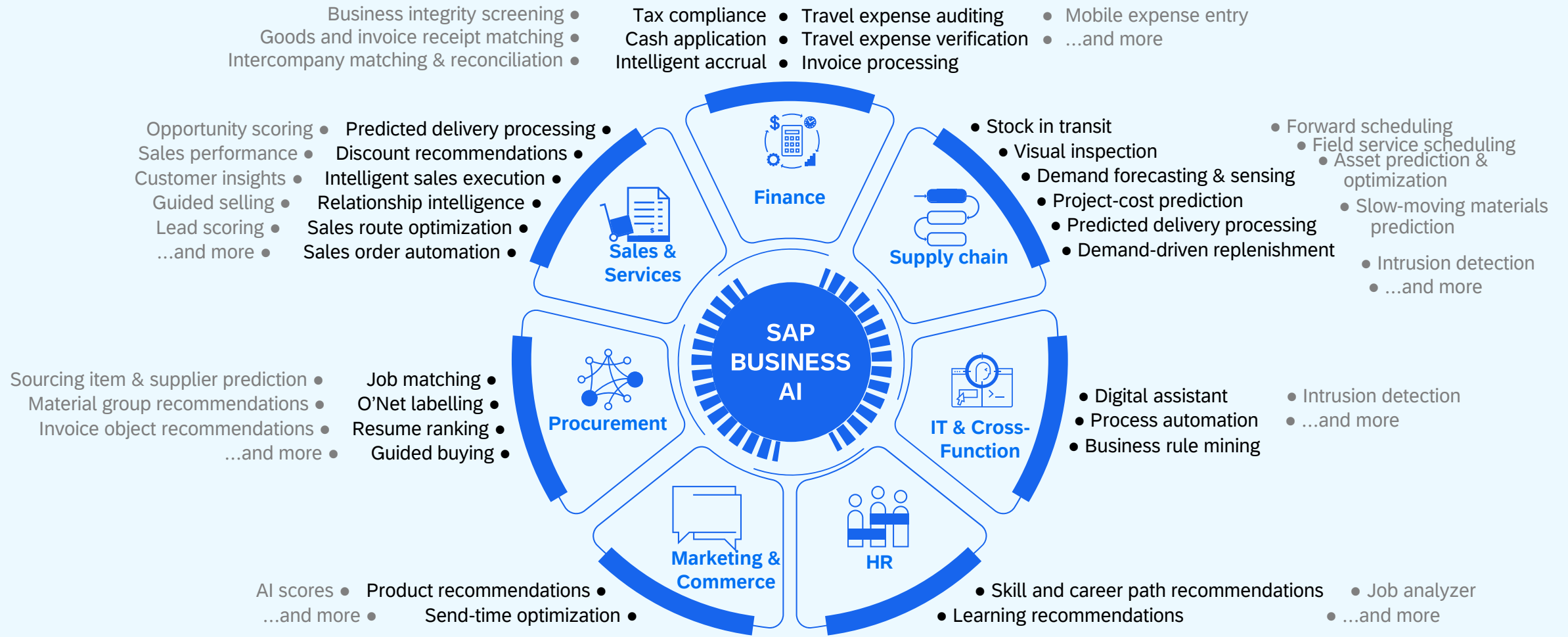
**Employee productivity is  
augmented delivering improved  
outcomes**

**Entirely new processes are  
generated to transform business  
performance**

# SAP Portfolio



# Most comprehensive AI capabilities for every function



# SAP Business AI approach

Relevant



Reliable



Responsible

AI-powered insights and assistance

Embedded AI capabilities

Cloud ERP

Human capital  
management

Spend management  
& business network

Customer relationship  
management

Business  
Technology Platform

AI foundation

on Business Technology Platform

AI ecosystem partnerships and investments



ANTHROPIC



cohere

databricks

DataRobot

Google Cloud

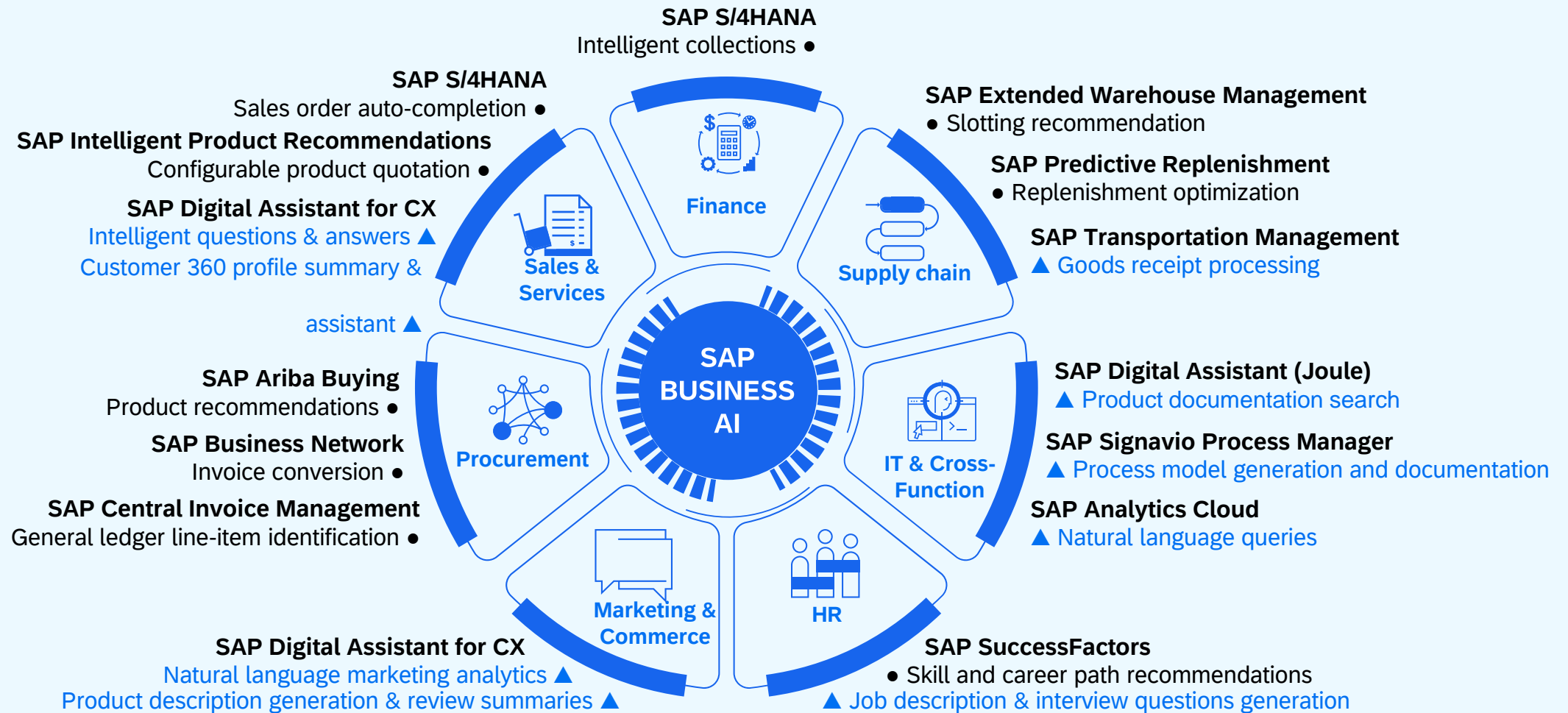
Hugging Face

IBM

Microsoft



# New built-in AI capabilities for your business





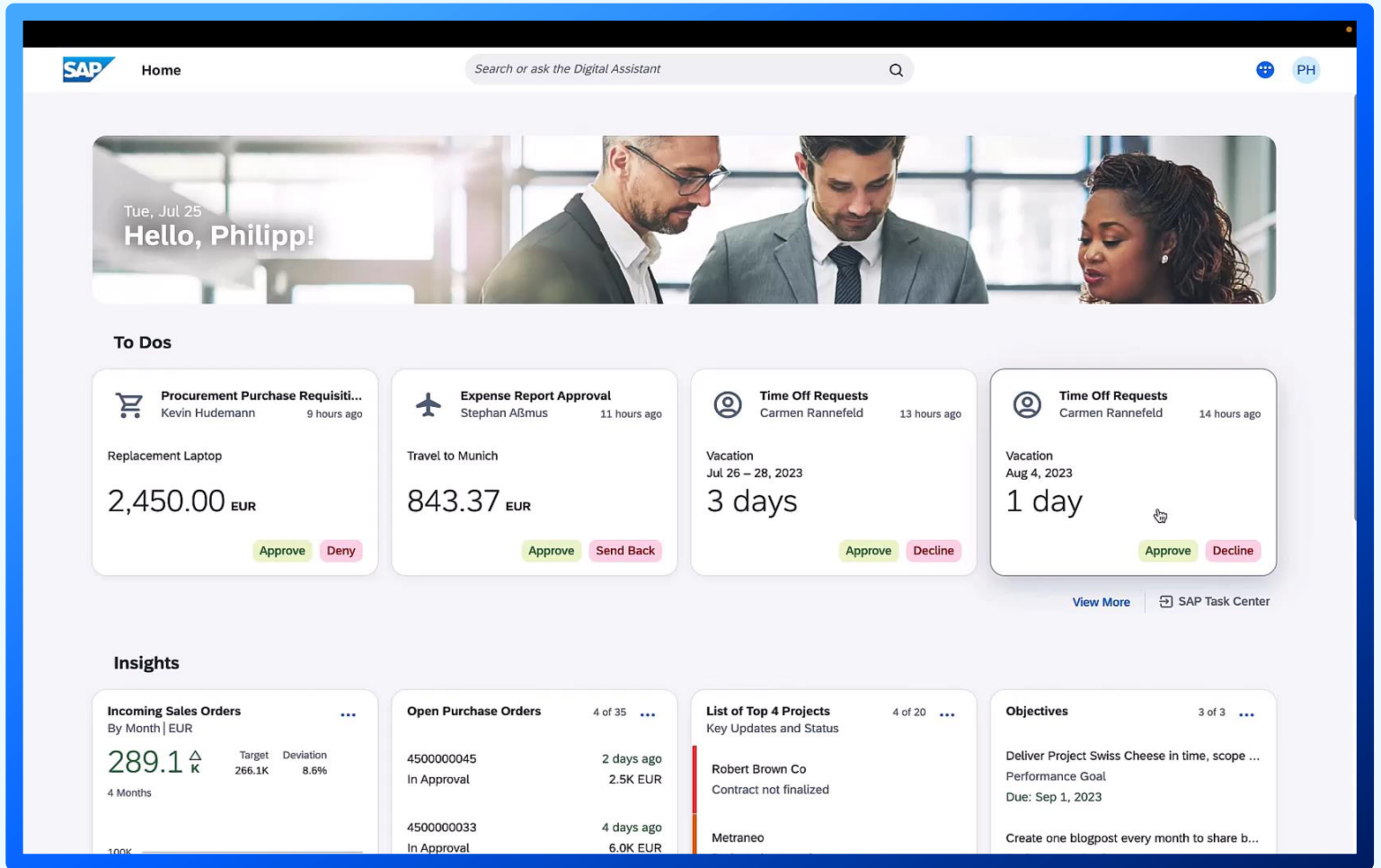
# AI-powered insights and assistance

# Joule

**Use** natural language to interact with your SAP applications in one out of the box unified experience

**Get** relevant responses, tailored to the context of your role and business process

**Leverage** the power of generative AI while maintaining data privacy and control



SAP Digital Assistant

Note: Planned availability in SAP business applications at different times, starting with SuccessFactors and SAP Start in Q4 2023.





# **SAP Business AI for Cloud ERP**

# Generative AI Writing Assistant

The screenshot displays the SAP SuccessFactors dashboard for user Tara. The interface includes a top navigation bar with the SAP logo, a 'Home' dropdown, a search bar, and user profile icons. A weather widget shows 'Tue, May 16 | 77°F'. The main content area is divided into several sections:

- To-Dos:** A grid of four task cards.
  - Job Requisition:** 2 mins ago. Sustainability Supply Chain Consultant, San Francisco, CA. Includes a 'SAP SuccessFactors' link.
  - Request for Employment Letter:** 4 hours ago. Effective on Jun 1st, 2023. Received on May 18th, 2023. Includes 'Approve' and 'Send Back' buttons.
  - Job Offer Approval:** 10 minutes ago. Internal Job: Sales Manager, Location: Frankfurt, Hiring Manager: Zoe Walker. Includes 'Approve' and 'Send Back' buttons.
  - Initiate Onboarding:** yesterday. Internal Job: Sales Representative, Location: Frankfurt, Start Date: 1st of September 2023. Includes a 'SAP SuccessFactors' link.
- Interests:** A grid of four panels.
  - Upcoming Interviews:** Today. Lists three interviews: Donna Moore (9:15 AM), John Walker (2:00 PM), and Fred Don (Tomorrow at 9:15 AM), all in Meeting Room MRR WDF19 B.2.
  - New Candidates - Job Requisitions:** Status as of Today. Lists four roles with candidate counts: Solution Architect (9 new), Program Manager (2 new), Sales Manager (2 new), and Sales Associate (12 new).
  - Objectives:** Lists three goals: 'Hire 15 Employees for Workstream One Off' (8 days overdue), 'Reducing Hiring Time by 20%' (Due: 30 days), and 'Increase Hiring satisfaction rate by 10%' (Due: 45 days).
  - Contacts:** Team Members. Lists four contacts: Kelly Warren (Senior Recruiter), Mary Kay (Senior Recruiter), Dame Walsh (Junior Recruiter), and Ricardo Dasilva (Hiring Manager), each with phone and email icons.

# Reduce financial risk through intelligent invoice matching

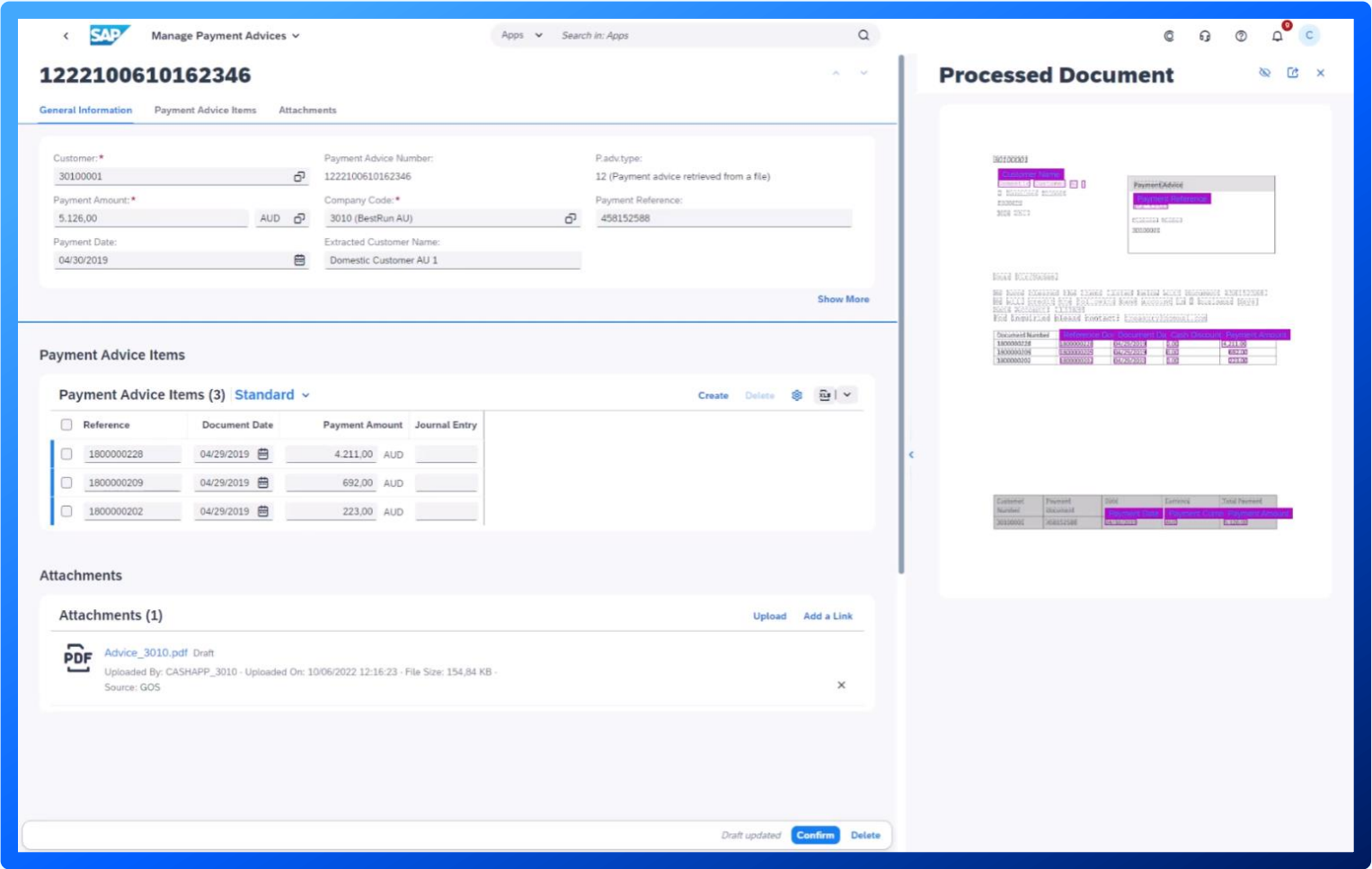
**Increase** efficiency and reduce errors in finance

**Reduce** Days Sales Outstanding (DSO)

**Improve** scale and speed of shared services team

60%

Reduction of manual receivable matching effort



SAP Cash Application

# Automate visual inspections on the shopfloor

**Reduce** manual effort in the quality control process

**Improve** operator productivity

**Increase** customer satisfaction

The screenshot displays the SAP Visual Inspection interface. At the top, there's a header with the SAP logo and 'KH\_OP\_VI\_POD'. Below this, search filters for SFC (D1004201), Operation Activity (QUAL), and Resource (KH\_QUAL001) are visible. A navigation bar includes 'Start', 'Complete', 'Sign Off', and 'Activities' buttons. The main area is divided into three sections: a 'Work List (8)' table on the left, a central camera view of a mechanical assembly, and a 'Report List' on the right. The 'Report List' shows several non-conformances with their probabilities and actions.

SFC	Status	Priority	Material	Order
D1004201	Green square	500	D18184488	1029628
D1004202	Blue circle	500	D18184488	1029628
D1004203	Blue circle	500	D18184488	1030096
D1004204	Blue circle	500	D18184488	1030096
D1004212	Blue circle	2	D18184458	1030151
D18181234-21	Blue circle	500	D18181234	1030059
D18181234-3	Blue circle	500	D18181234	1030041
D18181234-8	Blue circle	500	D18181234	1030043

NC Code	Probability	Action
MISS CAP Cap Missing Head Assembly	100%	Log NC
MISS SCREW L Screw Left Missing Head Assembly	0%	Log NC
MISS SCREW R Screw Right Missing Head Assembly	0%	Log NC
MISS SCREW T Screw Top Missing Head Assembly	0%	Log NC

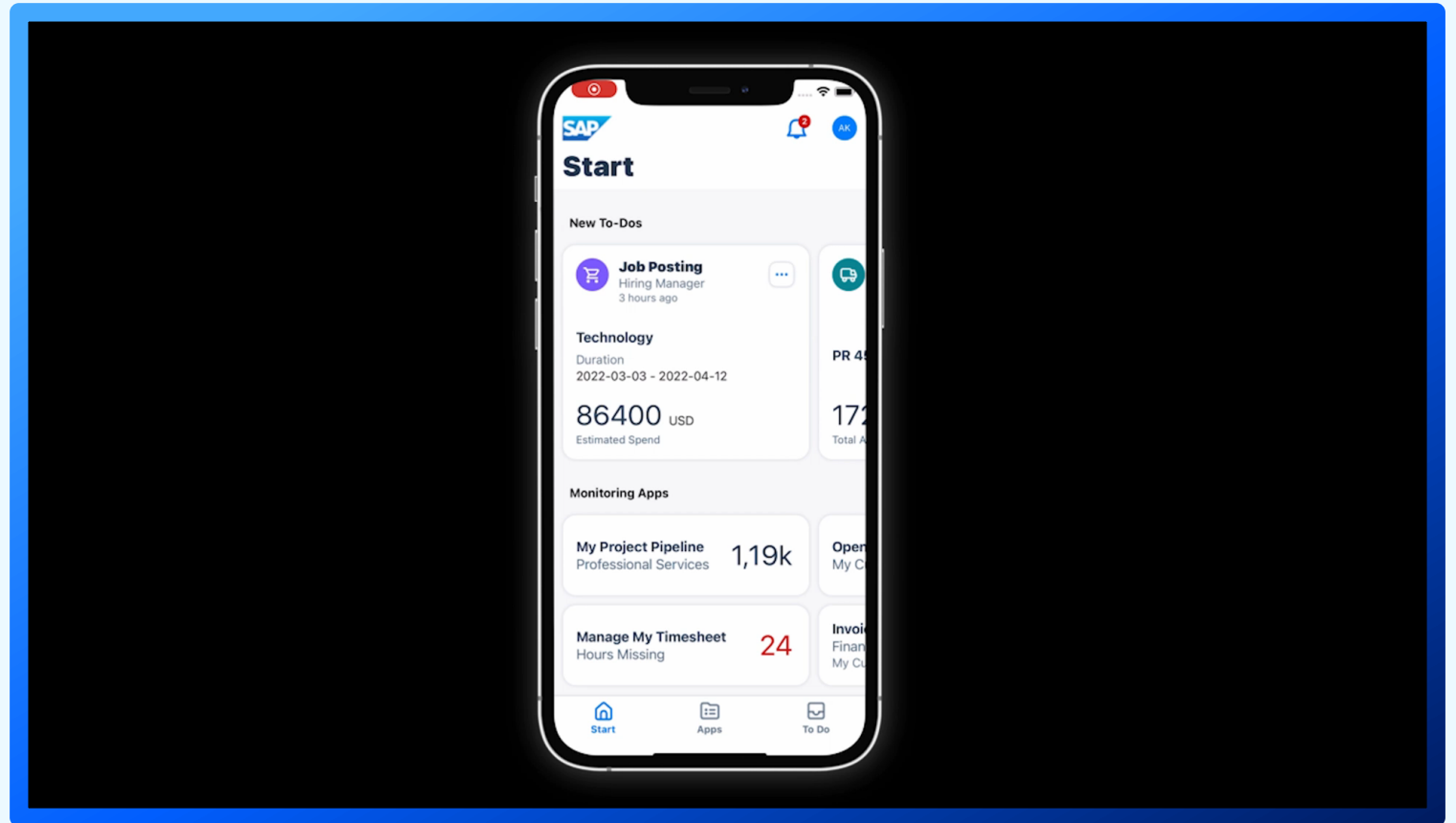
Visual Inspection – SAP Digital Manufacturing



# Expedite freight verification and documentation

50%

reduction in delivery note processing time



SAP Transportation Management

Note: Planned availability in Q2 2024





# **SAP Business AI on Business Technology Platform**

# Use AI to transform every aspect of your business

**Accelerate** application development  
with pretrained AI models

**Analyze** your data faster and easier  
using natural language

**Increase** efficiency by leveraging AI to  
automate and improve business processes

**>2.7M**

documents automatically  
evaluated and classified



Hamburg

Additional  
AI capabilities  
available today

AI Business  
Services

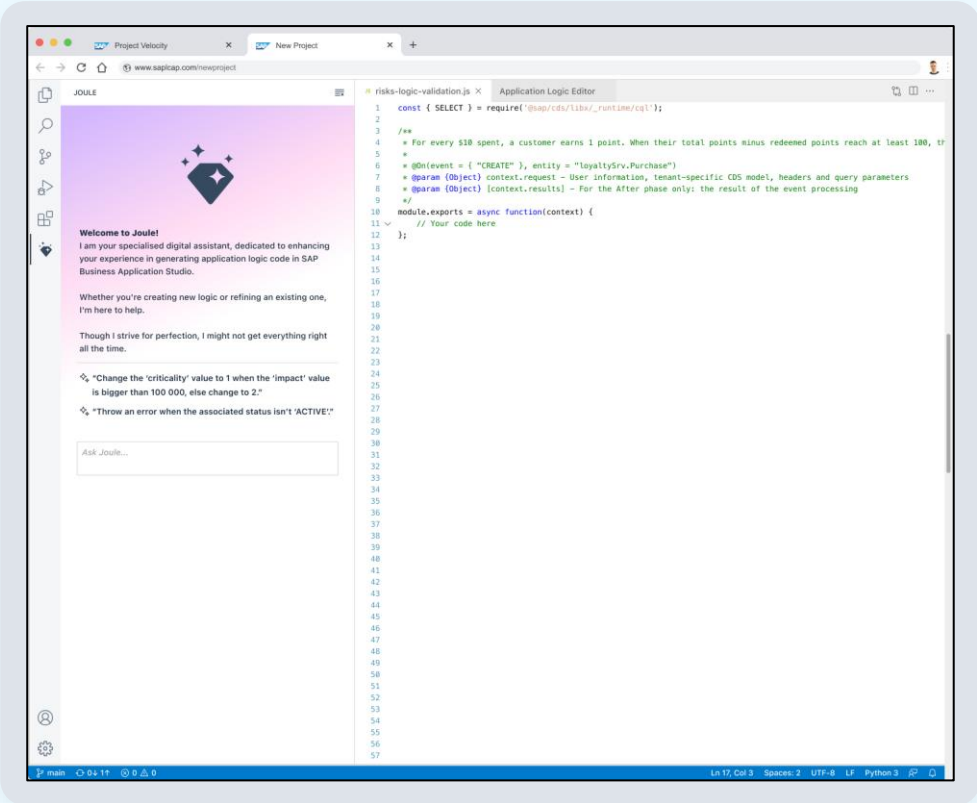
Model training  
and deployment

Forecasting

Integration

And more...

# Outlook: AI based code generation for CAP applications



**Up to 30%**  
time reduction to generate  
data models and services

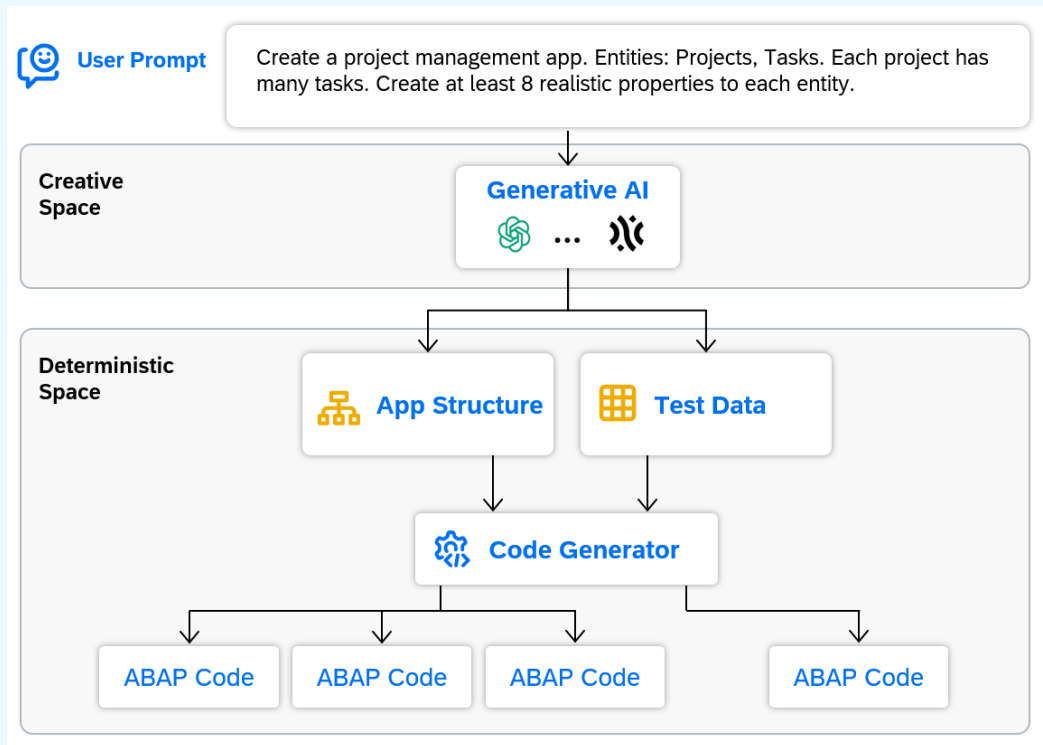


**Improve**  
Developer experience



**Empower**  
Users to answer their  
business questions

# Outlook: AI based code generation for SAP BTP, ABAP environment



## Accelerate

Creation of ABAP Cloud apps including test cases and data

## Support

Transformation of classic ABAP code into ABAP Cloud

## Empower

Developers to infuse AI into business scenarios

# Customers already benefit from artificial intelligence capabilities as part of SAP's Cloud applications and will now be able to unlock new premium features

## SAP BUSINESS AI

### Premium AI

RISE Premium  
Plus

& / Or

AI Unit  
Add-on  
(to RISE or GROW)

- Unlock premium AI capabilities applicable to your preferred scenarios across your SAP Cloud applications (see [Roadmap Explorer](#) for upcoming capabilities)

### Basic AI

Included in SAP Cloud Applications

- Access AI capabilities as part of your existing SAP Cloud applications

### BTP AI Services

BTP Cloud Platform Enterprise Agreement

- Build custom AI solutions and integrate them to your SAP landscape

### Ecosystem AI

SAP Store

- Procure best-of-breed AI solutions from SAP's ecosystem

# Thank you...

# SAPinsider



## SAPinsider.org

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