

# SAP Business AI: Today, Tomorrow, Beyond Tomorrow

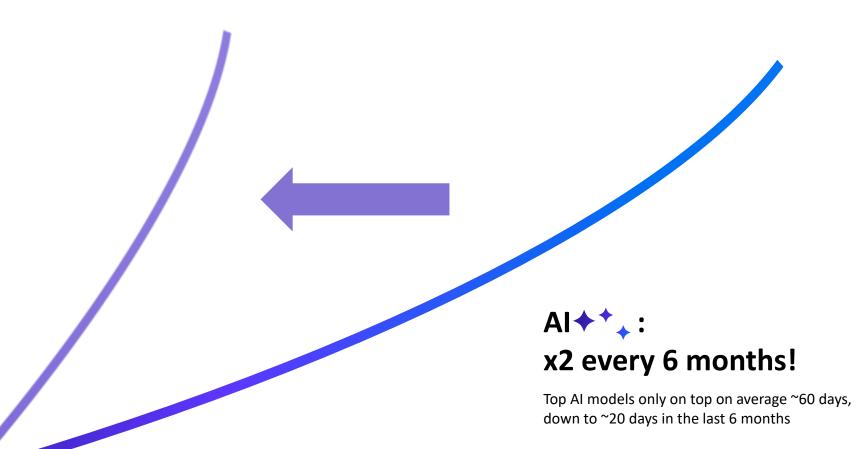
Jesper Schleimann Al Officer SAP EMEA 10.12.2024



# **IT Development**

Moore's law: x2 every 18 months

# **Al Development**



## Unlocking the next level of Business Al

Emerging AI Capabilities amplify Impact and Innovations







# **Al maturity**

By 2026, 30% of large EMEA organizations will triple conversion rates and reduce ROI time to under a year by shifting from departmental AI to scalable, crossfunctional AI applications. - IDC

### **NONE** No Al work

Al is not used by the organization.

### AD HOC Al laggard

Al is used in silos without a formal strategy or coordination.

# OPPORTUNISTIC Al apprentice

Al is used for isolated proof of concepts. Data readiness, governance, skills, and management, including technology selection, are done one-off.

# REPEATABLE Al practitioner

Al is used across multiple projects.
Data readiness, governance, skills, and management, including technology selection, are repeated across projects.

# **MANAGED**Al transformer

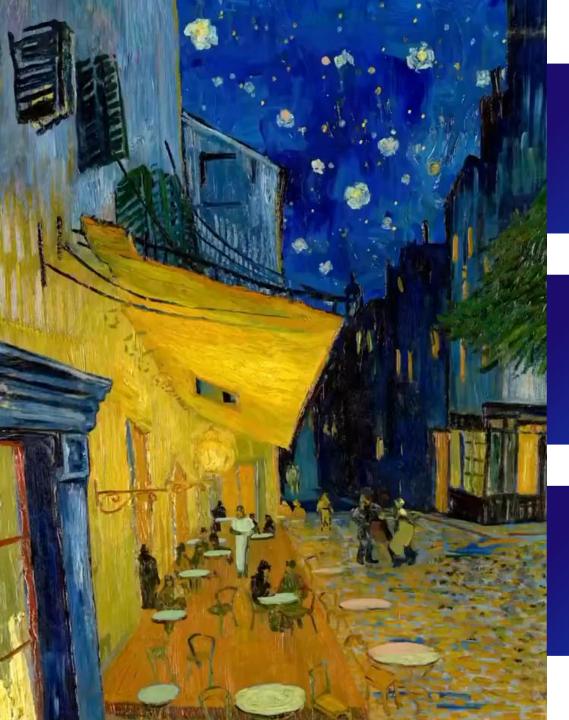
The enterprise-wide
Al strategy is aligned
to business goals.
Data readiness,
governance, skills,
and management,
including technology
selection, are
consistent across
Al initiatives.

# **OPTIMIZED**Al disruptor

The enterprise-wide
Al strategy is aligned
to business goals
and redesigned
business models.
Data readiness,
governance, skills,
and technology
maximize efficiency.

5

13%



## The actual data

- Correct on its own
- Isolated
- Meaningless

# What I know

## The semantic data

- Accurate in context
- Relatable
- Real meaning

# What I understand

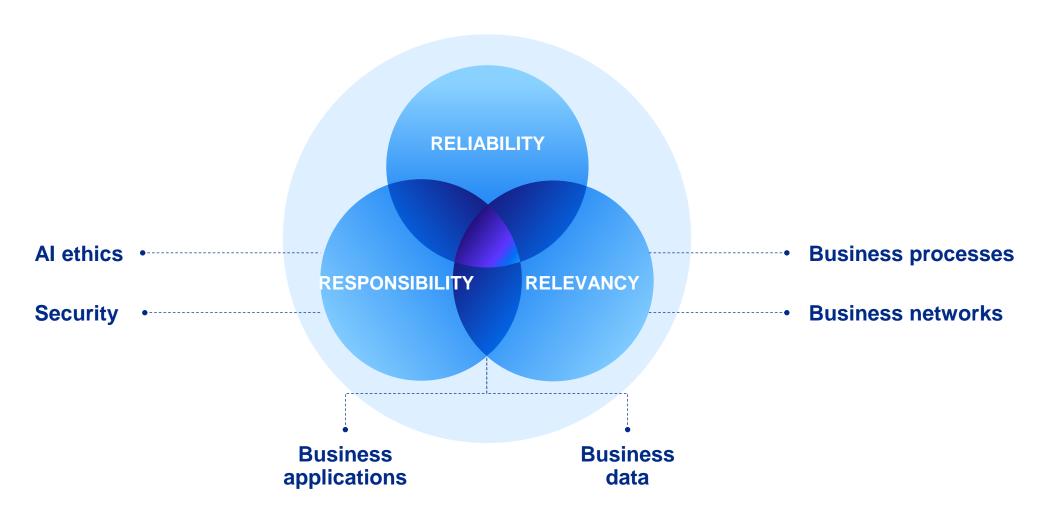
## The connected data

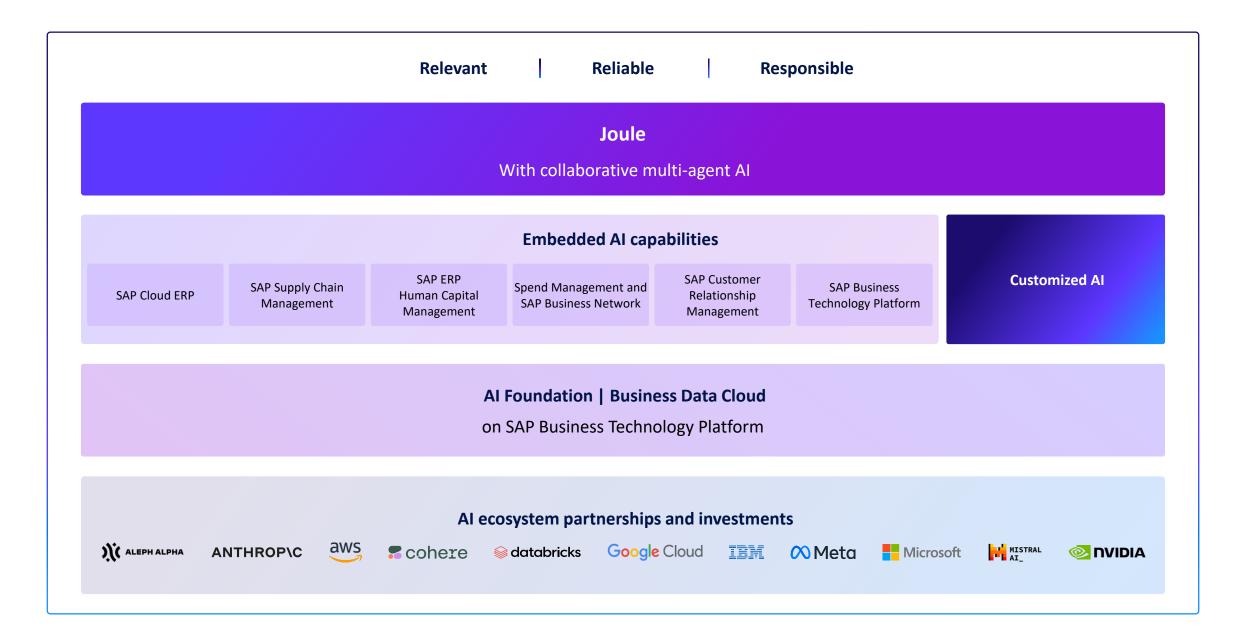
- Reveals the hidden
- Deep context
- New in insights

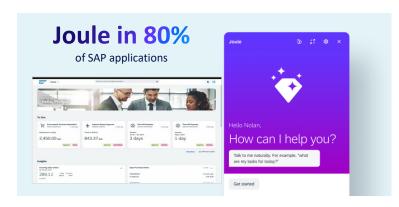
# What I do

## Al success

Al value realization requires context, security, and scale









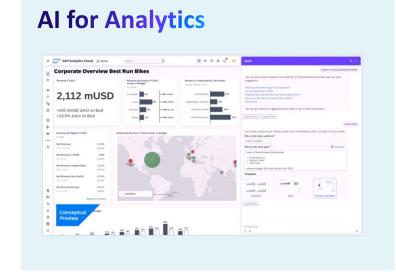


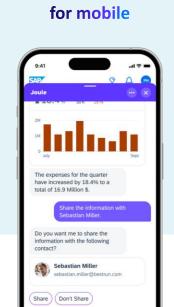


Da ing

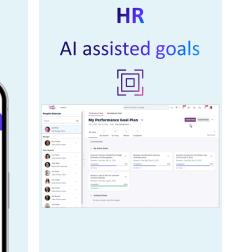


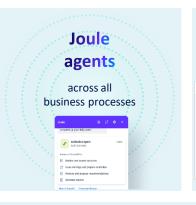
Hey Siri, ask SAP

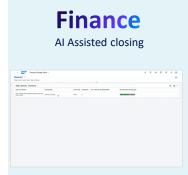




**Joule** 







We got you covered

access to top tier models

with generative AI hub









#### To Dos









View More

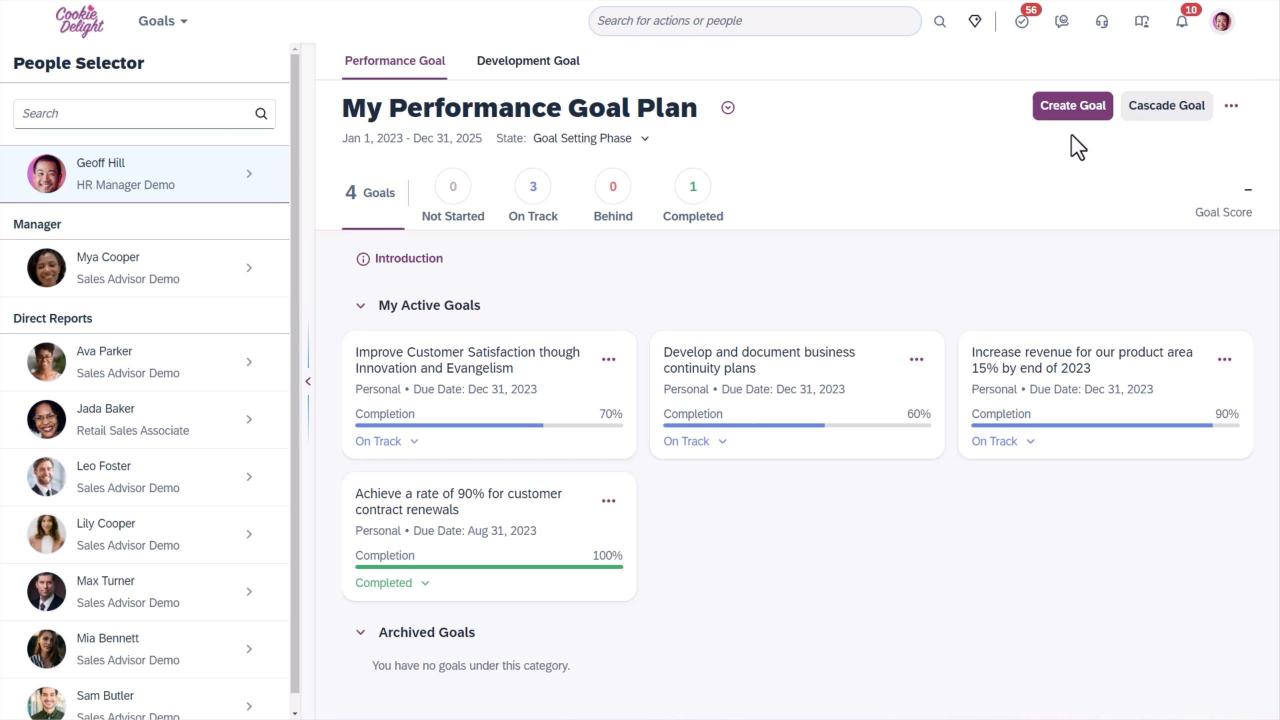
**→** SAP Task Center

#### Insights



**Open Purchase Orders** 4 of 35 ••• 2 months ago 4500000045 In Approval 2.5K EUR

4500000033 2 months ago





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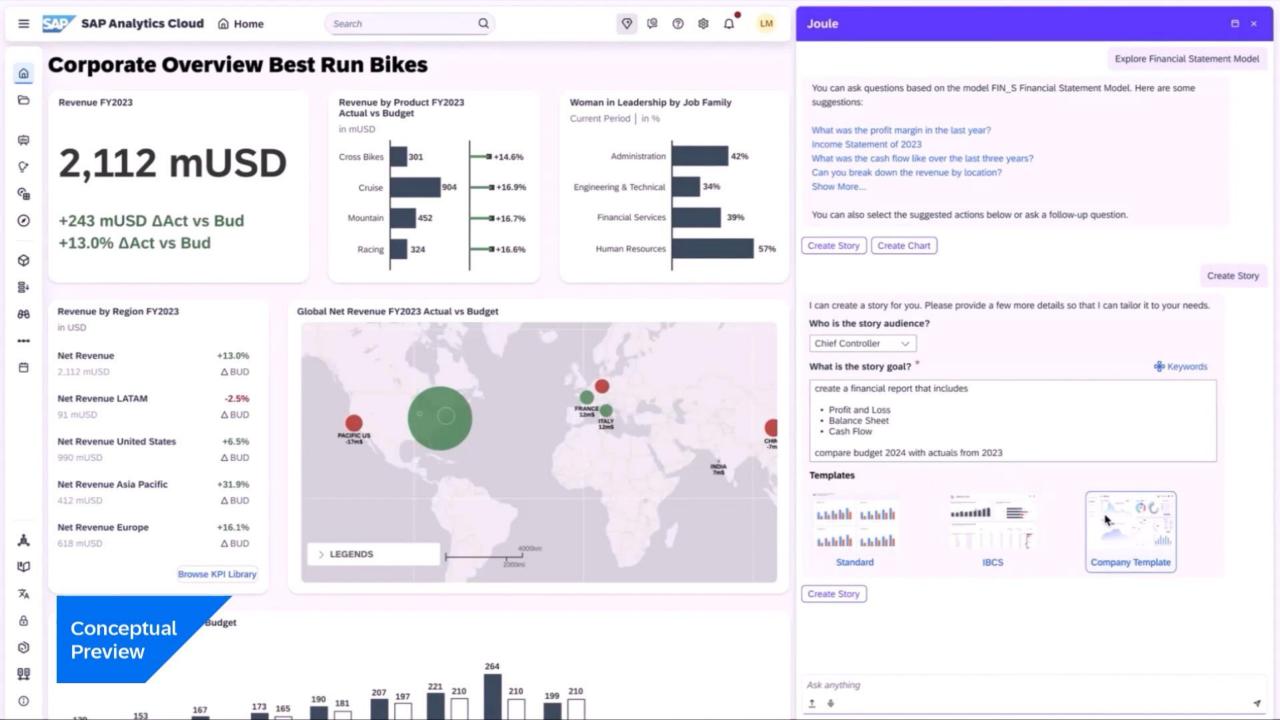






2 filters active: Search Terms, Task List Status

Task Lists (1) Standard ~					\$ @   ∨
Task List Instance	Closing Type	Fiscal Year	Posting Pe User / User Group Responsible	My Tasks (Processing User)	
AFC_CLOUD_2024-2024003 (Global Financial Close S4HC)	Month-End Closing	2024	3	32 27	>



## 100+ SAP Business Al Scenarios – plus more to come



#### **ERP** and finance

#### SAP S/4HANA Cloud Public Edition

- Basic Transactional Content Insights to Business Objects
- Joule for Situation Handling
- Role-based transactional content for Operational Purchaser

#### SAP S/4HANA Cloud Private Edition

- ASM Intelligent Maintenance Order Recommendation
- MDM Simplified Business Partner maintenance v1 (read operations)
- M D M Assisted Changes and Summarization of Change Requests (MDG)
- M D M Simplified Business Partner maintenance v2 Joule
- Finance & Risk SAP Enterprise Service Management Shared Services Automation for Finance Content
- Finance & Risk AFC Feature: Guided Error Resolution
- Finance & Risk Dispute Management via Communication Intelligence
- Finance & Risk SAP Behavioral Insights for BRIM Enhancing Intelligent Collection
- TM: Intelligent Goods Receipt Analysis in Transportation Management v1
- · TM: Transportation Cockpit Planning
- Track Sales Orders: Faster insight into Sales Order fulfillment process v1 – Joule
- EPPM Intelligent Project Assistant Selected

Navigational/Transactional Capabilities - Joule

#### SAP Signavio

Process Analyzer: Text to insights

#### Supply chain

#### **SAP Digital Manufacturing**

Manufacturing Issue Analysis and Solution Assistant

#### SAP Product Lifecycle Management

- Digitalization of Legacy Drawings
- · Document summarization (beta)
- LLM based specification search (beta)

#### Human resources SAP

#### SuccessFactors

- · Text Analyzer/Safety Scan
- Assisted Opportunity Marketplace Assignment Generation (User driven)
- Assisted 360 Reviews & Insights
- · Assisted Writing with Recognition Messages
- Assisted Writing for People Profile, Onboarding, Dynamic Teams, Objectives, Key Results, and Talent Intelligence Hub
- Assisted Writing with Content Translation
- · Assisted Progress Insights

Selected roadmap highlights

 Al-assisted Person Insights – Compensation Discussion in new People Profile

#### **Procurement**

#### SAP Ariba

- Supplier Matching for SAP Spend Control Tower
- Spend Categorization for SAP Spend Control Tower

#### SAP Concu

· Travel Personalization for flight recommendations

#### SAP Fieldglass

- · Joule assisted report and search
- · Joule assisted help information retrieval

#### SAP Business Network

- Assisted Q&A in Joule
- · Invoice error summarization

#### Sales and marketing

#### SAP CX AI Toolkit

- Shopping Assistant: Ask the Product, Semantic Search and Intent based Search for consumers in Commerce Cloud
- Al tool builder support for list of records
- Automated Al agents
- Intelligent Q&A subject matter expert
- Al image generation with overlays
- Joule availability

#### SAP Service Cloud, Version 2

- Next Best Actions-Suggest Collaborators
- Al-assisted entity extraction

#### SAP Field Service Management

- Equipment Insights: translations
- · Intelligent Filtering: additional language support

#### SAP Enterprise Service Management

Al-assisted backend entity extraction

#### Industries

- Life Sciences Generative AI Assisted Batch Release
- Public Sector Navigational Assistance to Public Sector Management Applications through the Joule Co-Pilot
- Sports & Entertainment Al Scout in Sports One

#### IT and platform

#### SAP Build Code

Joule copilot for queries regarding SAP application development

#### SAP Build Work Zone

Joule integration

#### SAP HANA Cloud

- Issue Summary Generation
- Intelligent Assistant in HANA Cloud Central
- Native Vector Embeddings

#### SAP Build Process Automation

- Generative AI for Process Automations
- Adoption of Document Information Extraction premium

## Q1 2025

#### ERP and finance

#### SAP S/4HANA Cloud Public Edition

- Intelligent Extensibility Accelerator for Business add-ins (BADI)
- · Smart Summarization for Fiori Elements-based objects page
- · Easy Filter for Fiori Elements-based list reports
- Generative AI for Situation Handling
- Financial Business Insights
- Advanced Financial Closing-Automated error explanation and guided resolution
- Al-assisted US tax jurisdiction configuration
- Error Resolution Assistant Production Accounting

#### SAP S/4HANA Cloud Private Edition

- ASM Al based task list recommendation for maintenance order creation
- ASM Creating Repair Objects from Paper
- Master Data Governance Assisted Change for "Customer Objects" (MDG)
- Master Data Governance Summarize Mass Changes (MDG)
- Finance & Risk Journal Upload with Generative Al
- Finance & Risk Intelligent Trade Product Classification
- Finance & Risk Enhancement of Behavioral Insights with additional attributes
- LE: Intelligent Inbound Delivery
- EWM: Al based warehouse order streaming and task optimization v1

#### Supply chain

#### SAP Digital Manufacturing

- Integration of visual inspection with quality management of SAP S/4HANA for inspection planning
- Analyze efficiency and effectiveness of visual inspections

#### SAP Integrated Business Planning:

- Explanation of supply optimization planning results
- Generative AI Assistant for Excel Add-in

#### Industries

- Discrete Industries Al-powered everything-as-service and outcome-based-business pricing models
- Life Sciences Al enabled Control Tower for Advanced Therapies
- Life Sciences Intelligent Error Resolution in the Life
  Sciences Supply Network
- Commodity Management Generative AI Enabled Cross Industry Scope: Phase 1 - Energy
- Retail Automated promotion generation based on demand /traffic
- Retail Advanced product and order search, summarize recent eCommerce and in-store, transactions, and aggregating data to generate insights

#### Sales and marketing

#### SAP CX AI Toolkit

- · Contextual experience for SAP Cloud for customer
- Additional application language support
- Media attachment analysis for attribute detection and product description
- Publish Commerce Al outputs to custom application
- Custom Al tool for Commerce Cloud
- Embedded UI for Commerce Cloud

#### SAP Sales Cloud, Version 2

• Sales order & pricing simulation insights

#### SAP Field Service Management

- Generation of a service report including smart forms
- Providing Joule functions for the dispatcher
- Voice recognition and voice-to-text functionality
- Analysis of similar activities

#### Procurement

#### SAP Ariba

- Bundling
- Contract Assistant

#### SAP Concur

- Policy search
- Cost estimates
- Travel Personalization flight

#### **Business Network**

BNP and BNSC – NextGen

#### SAP ABAP

- Joule's ABAP Developer Capabilities
- ABAP AI SDK with ISLM

#### SAP BTP Cockpit

Joule integration

#### SAP Build Code

- Joule support complex multi steps code
- Joule for analyzing existing code (explain)
- Joule for Fiori tools and UI5 guided development

#### SAP Build Apps

- Low-Code Formula Editor
- UI generation from dat

#### SAP Build Work Zone

- Generative Al-driven content creation assistance
- Al grounding and reference based on SAP Build Work Zone content and documents

#### SAP HANA Cloud

- HANA Cloud Knowledge Graph Engine
- Generative AI Toolkit for HANA Cloud
- NSE for Vector Data RME

## What are Al agents?



All agents can autonomously interact with the environment and iteratively reason through multistep tasks to achieve a goal.



IDC: By 2028, 40% of the business professionals in the top 500 EMEA companies will rely on AI agents and orchestrators for reporting and data workflows, accelerating data access democratization to solve business challenges faster.

## **SAP Joule agents**

And many more Customer experience IT Spend management

5 23 8 × Joule to speed up your daily work! **Collection Agent** Active SAP S/4HANA **Business AI Capabilities** Monitor and assess accounts Issue warnings and prepare reminders Analyze and propose recommendations Generate reports Watch Tutorial Generate Report I've detected two payment issues already: BestRun-AC Dispute - Invoice #INV5634566 Details **Best Run Systems Corp** Dispute - Invoice #INV7567601 Message Joule...

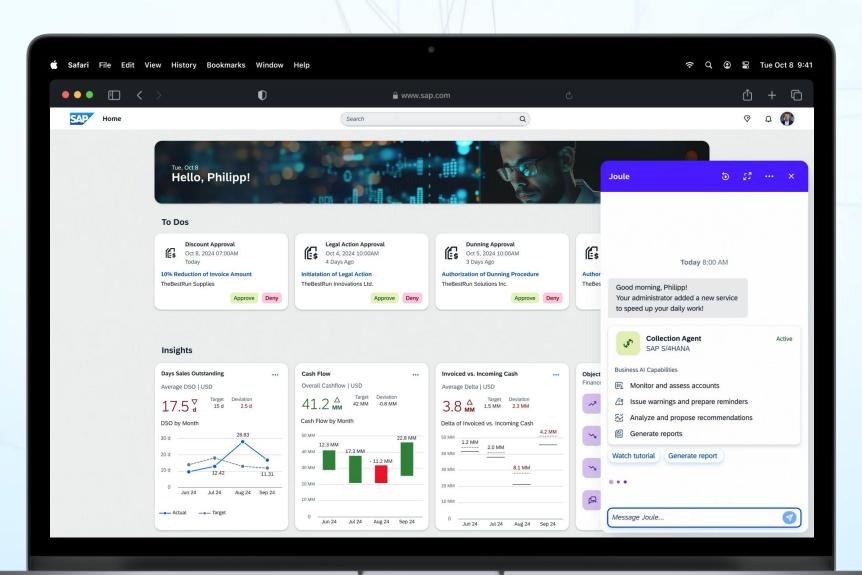
Human capital management Procurement Supply chain

Finance

Sustainability

# SAP Joule agents

in action







- Ground work, consumer-led
- Pseudo-Personalization
- Individualized work paths

**BEYOND** 



## **Predictive Everywhere**

- Workarounds
- Tabular foundation models
- Neurosymbolic Al
- Resurgence of classic ML

**Personalization Scaling** 

# **BEYOND**

**Predictive Everywhere** 

## **Proprietary Data**

- Finite Public Data
- Behavioral Operations Data
- Your differentiator

**Personalization Scaling** 

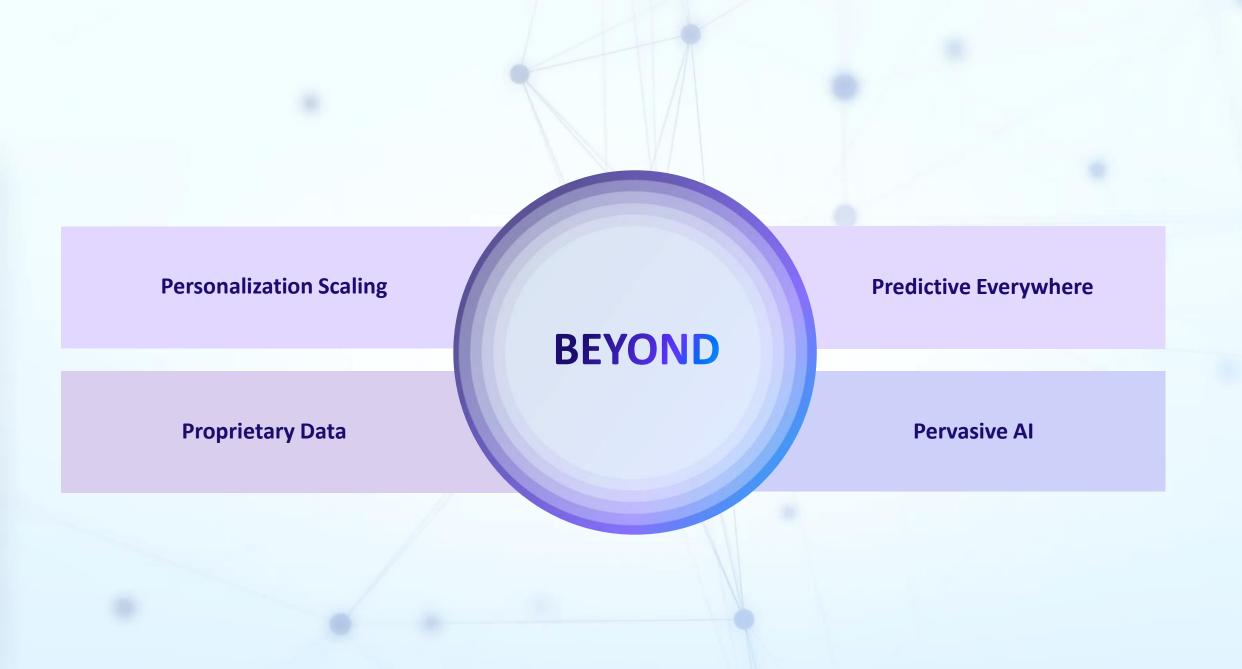
**BEYOND** 

**Predictive Everywhere** 

## **Pervasive Al**

- Specialized Models
- Contextual Awareness
- Arms & Eyes

**Proprietary Data** 



## **Craft your AI strategy**



#### Relevant

- Focus on business use cases with scale
- Foster cross-functional teams, combining AI expertise with business understanding
- Integrate **AI** in **digital core** to enhance insights and processes without disrupting workflows



#### Reliable

- Leverage the structured data present
- Ensure AI solutions are scalable within the business process landscape for easier adaptation to future growth and changes
- Establish data governance within core systems



### Responsible

- Include everyone in the AI agenda
- Ensure transparent, explainable decisionmaking to meet regulatory and ethical standards
- Develop Al governance to prevent decision biases

Al feature catalog



SAP Cybersecurity Strategy



AI ethics handbook



