SAP Business AI
AUTONOMOUS ENTERPRISE

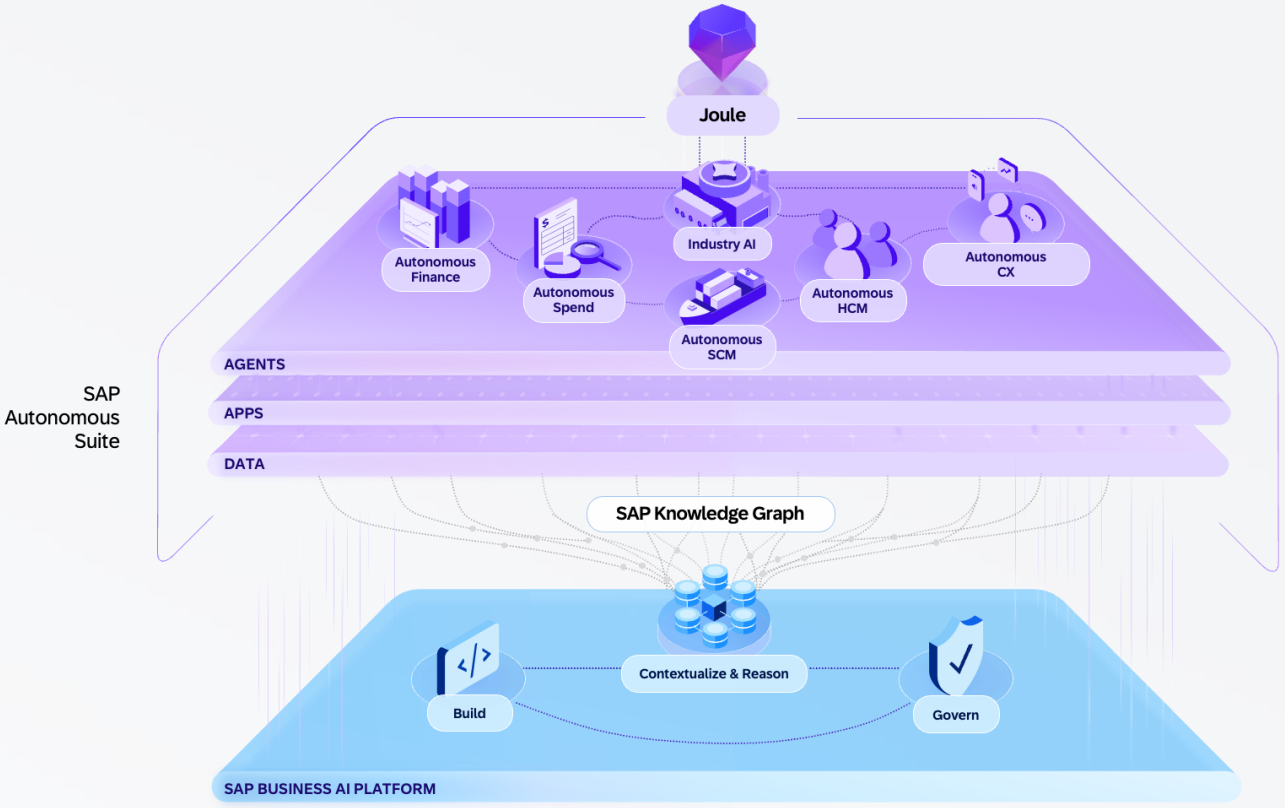
Jonathan von Rueden
Chief AI Officer and Head of Platform & AI, SAP SE

INTERNAL - SAP and Partners Only

Disclaimer

- The information in this presentation is confidential and proprietary to SAP and may not be disclosed without the permission of SAP. Except for your obligation to protect confidential information, this presentation is not subject to your license agreement or any other service or subscription agreement with SAP. SAP has no obligation to pursue any course of business outlined in this presentation or any related document, or to develop or release any functionality mentioned therein.
- This presentation, or any related document and SAP's strategy and possible future developments, products and or platforms directions and functionality are all subject to change and may be changed by SAP at any time for any reason without notice. The information in this presentation is not a commitment, promise or legal obligation to deliver any material, code or functionality. This presentation is provided without a warranty of any kind, either express or implied, including but not limited to, the implied warranties of merchantability, fitness for a particular purpose, or non-infringement. This presentation is for informational purposes and may not be incorporated into a contract. SAP assumes no responsibility for errors or omissions in this presentation, except if such damages were caused by SAP’s intentional or gross negligence.
- All forward-looking statements are subject to various risks and uncertainties that could cause actual results to differ materially from expectations. Readers are cautioned not to place undue reliance on these forward-looking statements, which speak only as of their dates, and they should not be relied upon in making purchasing decisions.

Welcome to the Autonomous Enterprise



Key elements of the Autonomous Enterprise

1. **Joule as the new engagement layer**, bringing together data, workflows, and agents across SAP systems and beyond
2. **SAP Autonomous Suite** to reinvent how enterprises run, based on AI assistants and agents executing work E2E
3. **Industry AI** embeds the process knowledge, compliance rules, and data models specific to your industry
4. **SAP Business AI Platform** delivering business context, unified data, models, and enterprise-grade governance
5. **Accelerate adoption** of the Autonomous Enterprise with our agent-led transformation and RISE/GROW offerings

One place to direct the entire business.

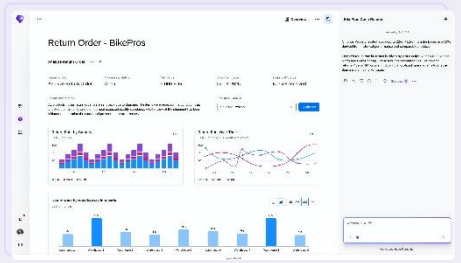
A new human advantage

Joule Work, beyond chat

Conversations
Powered by Joule

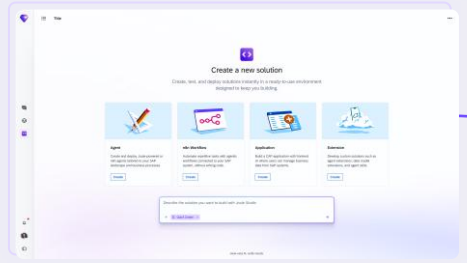
Ask a question in plain language and get to action in one step.

Spaces

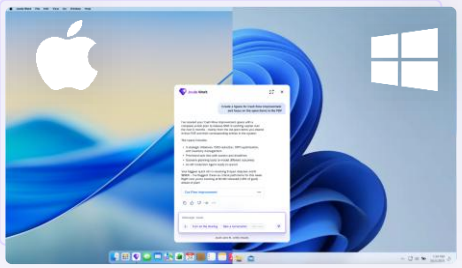


Flexible AI-generated, spaces that adapt content dynamically based on user intent and context.

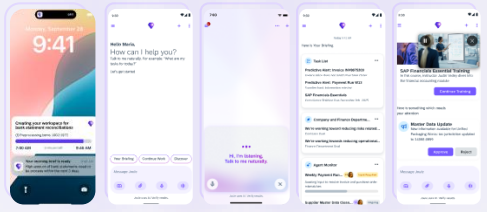
Develop
Joule Studio



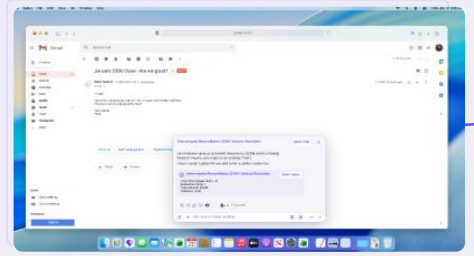
Build custom apps and agents that extend Joule to your own work.



Cross OS **Desktop** Experience



Available on Mobile,
Cross-platform and multi-modal



Omnipresent:
Browser-based Joule action bar

Joule: From Classic to Claw

Pre-Sapphire

Traditional AI Chatbot (RAG)

- Limited reasoning capabilities
- Low fault tolerance in data retrieval precision
- Small action space
- Contextual awareness and productivity
- Limited scalability and architecture gaps

Private Preview

Frontier LLMs

Joule Agent

Computer use

Joule skills

Sandboxes

Auto SQL / KG

Building on open standards and technology

MCPs / A2A

NVIDIA OpenShell

Files & Skills

Post-Sapphire

Harness-powered Agentic AI Assistant

- Reasoning and planning, full task execution
- Contextual awareness and memory
- Self-correcting and fault-tolerant
- Rich, any-format output
- From SaaS to Software-as-a-Result

1 Joule

One place to direct the business.

AI does the busy work, so you do your best work.

Joule Work is where you run the business. Instead of switching between systems, you stay in one place. Assistants bring the context. Agents move the work. You make the decisions that matter.
Easily accessible on mobile or desktop, by text or voice.

A new human advantage

Joule Work, beyond chat

Less navigation. Faster action. Better decisions.

Answering Everything

Hyper Personalized

Dynamic & Adaptive

Developer Ready

Agentic Workflows

Joule
your intelligence behind every assistant, agent, and insight.

Joule Work
your workspace to direct assistants, get answers, and move work forward.

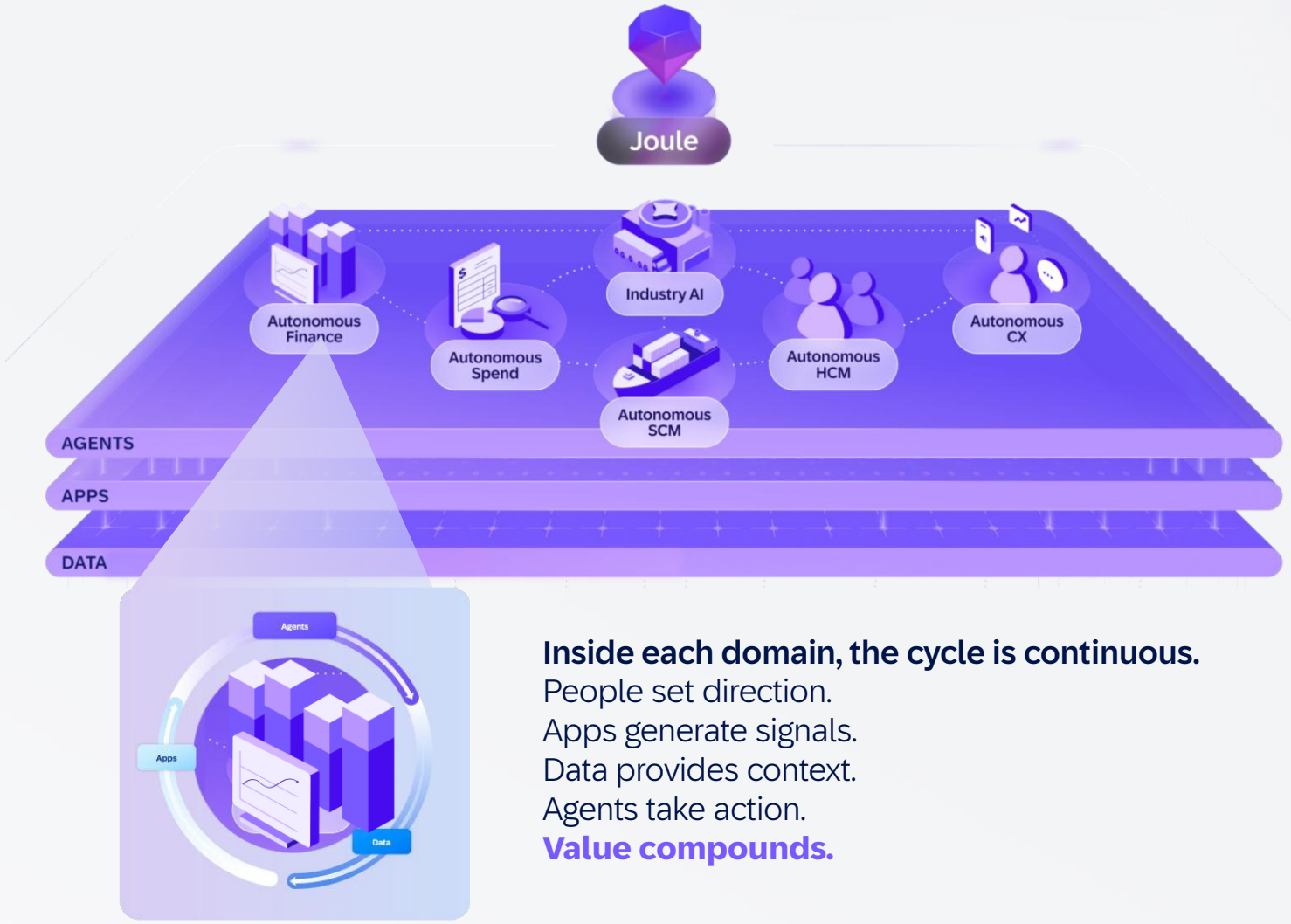
Joule Assistants + Agents
your expert teammates that execute across every system.

People direct. Assistants orchestrate. Agents execute

The Autonomous Suite is the operational core of the business.
It spans five domains so workflows and agents run across functions without fragmenting into separate tools, separate data, or separate decisions.

The domains move as a single system.
A decision in one shows up in all.
No integration tax. No stitched-together stack.

The result: a business that runs **leaner**, moves **faster**, and **bends** without breaking.



Inside each domain, the cycle is continuous.
People set direction.
Apps generate signals.
Data provides context.
Agents take action.
Value compounds.

Autonomous Enterprise: Domains and Pillars

The Autonomous Enterprise is built around five autonomous business domains

Autonomous Finance	Autonomous Supply Chain	Autonomous Procurement	Autonomous Workforce	Autonomous Cust. Engagement
Planned Assistants: 11	Planned Assistants: 7	Planned Assistants: 9	Planned Assistants: 14	Planned Assistants: 18
Agents GA HY1/26: 35	Agents GA HY1/26: 40	Agents GA HY1/26: 18	Agents GA HY1/26: 58	Agents GA HY1/26: 15

Key Pillars

Automation

- **End-to-end execution** of repetitive, **rule-based tasks** via orchestrated **workflows** and system integrations
- Ensures **consistency and reliability**; frees people to focus on strategic and creative work

Intelligence

- **AI-driven sensing** and **continuous learning** from data
- **Detects patterns** and anomalies; delivers **context-aware recommendations** and enables real-time decisions

Optimization

- **Continuous** performance **analysis** and **dynamic adjustment of processes**, resources, and KPIs
- Maximizes **efficiency, scalability**, and value; enables **proactive** response to change

A **self-managing**, adaptive **organization** that **reduces** operational **friction, accelerates response** to market shifts, and **sustains competitive advantage**

Corporate Functions GFA | Demo Financial Analyst Assistant

Accelerating financial insight-to-action through natural language.

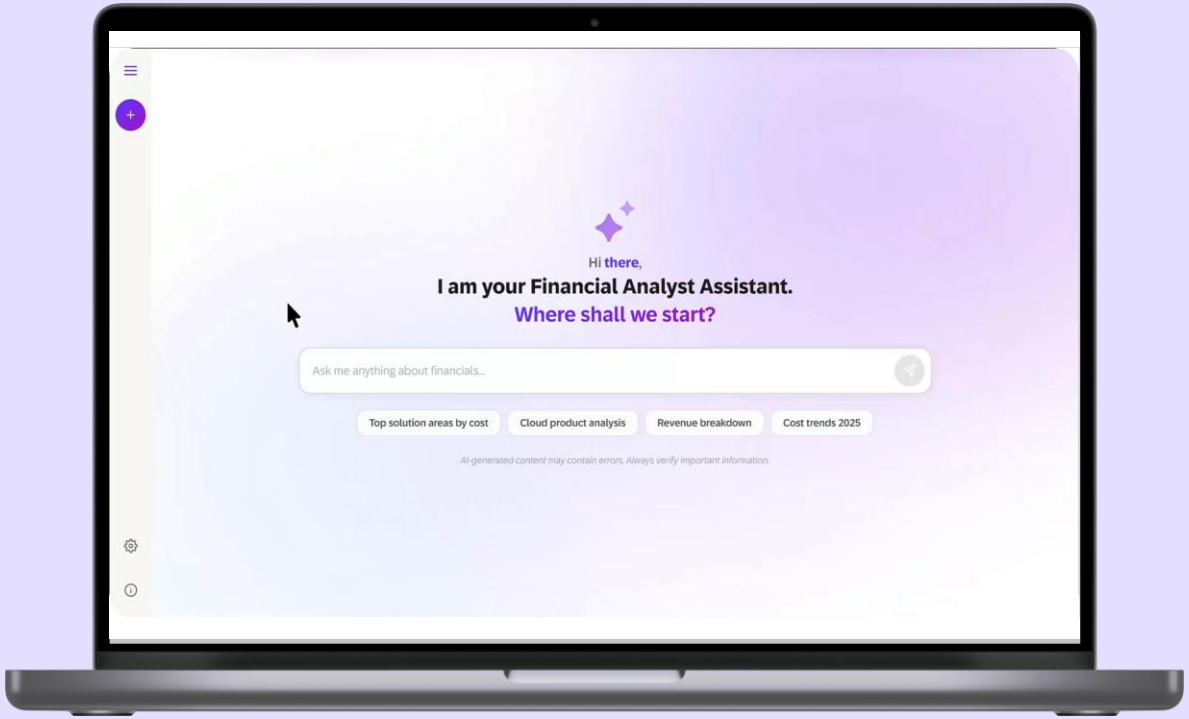
Financial Analyst Assistant

Replaces manual dashboard navigation with a single conversational interface for instant financial insights.

- Understands and processes natural language queries on financial data
- Automatically selects and interacts with relevant Data Products
- Answers analytical/ non-analytical queries with process knowledge and recommends next best actions
- Directly accessible for end-user via Joule Desktop

July 2026 Initial Go-Live

launching with selected data products, expanding coverage through 2026/2027



Disclaimer: This demo illustrates the assistant's functionality using test data. The solution is still undergoing final development and refinements.

Let's work the AI way.

S/4HANA Cloud | Home

Search

My Home | Document and Reporting Compliance

Overview

Dave
Tax Manager

Overview
General Ledger

Manage Journal Entries

Periodic Activities

On Time	65%
Delayed	10%
Invoicing Issue	25%

5 min ago

Statutory Reports

89
Current Quarter

Incoming Regulatory Changes
EMEA

50
Year to Date

Q1 Q

Self Services

Statutory Reporting

Applications

Define Statutory Reports

Manage Your Solution
System Setup

Manage Document and Reporting Com...

Regulatory Change Manager

70M 45M
June June 30
EUR, Year to Date

Joule

Open New Experience

One more thing before the day wraps up?

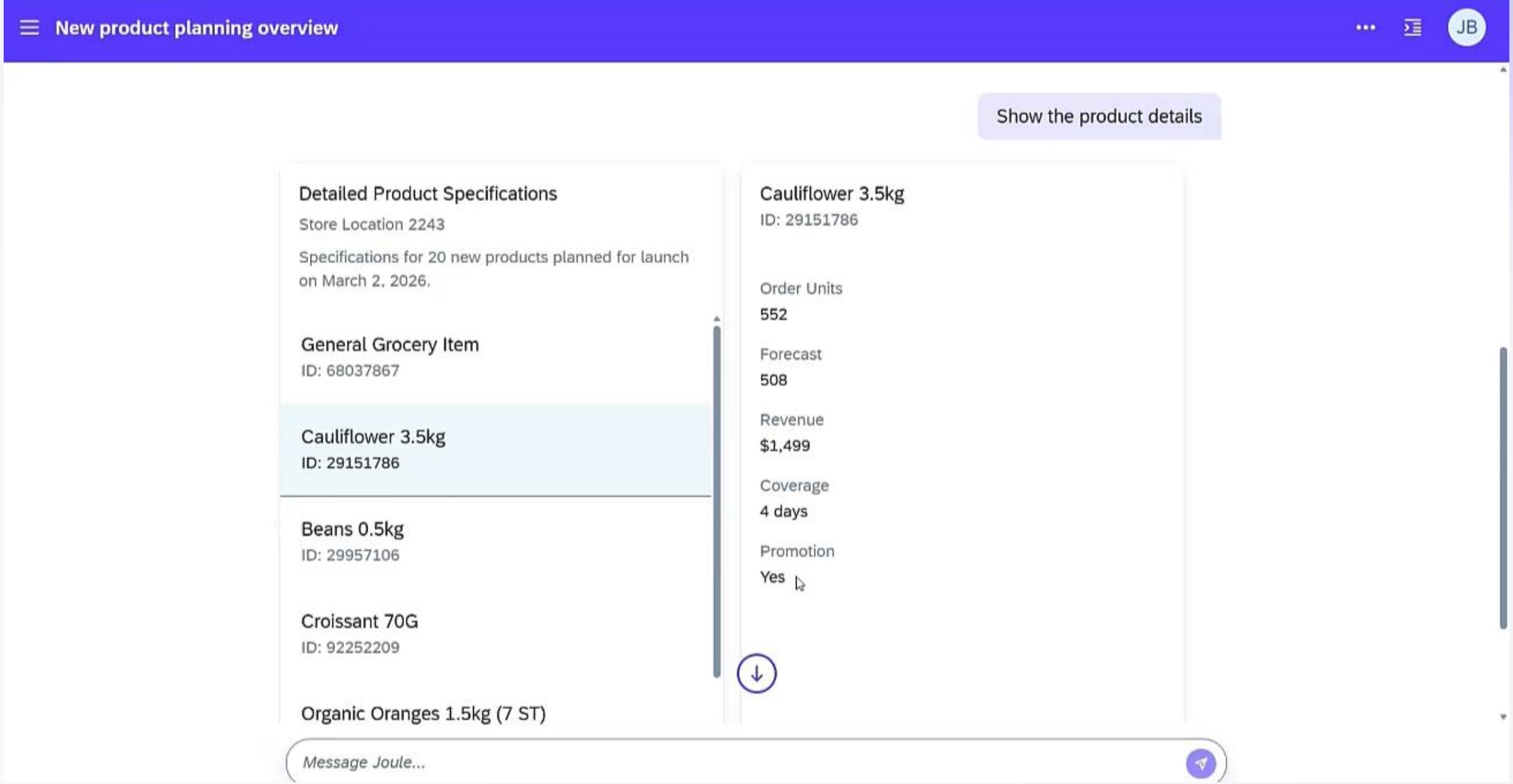
Message Joule or use @ to loop in an assistant

Joule uses AI, verify results.

NDA

Demo

Retail Demand Forecasting


New product planning overview
JB
Show the product details
Detailed Product Specifications
Store Location 2243
Specifications for 20 new products planned for launch on March 2, 2026.
General Grocery Item
ID: 68037867
Cauliflower 3.5kg
ID: 29151786
Beans 0.5kg
ID: 29957106
Croissant 70G
ID: 92252209
Organic Oranges 1.5kg (7 ST)
Cauliflower 3.5kg
ID: 29151786
Order Units
552
Forecast
508
Revenue
$1,499
Coverage
4 days
Promotion
Yes
Message Joule...

Conversations

Hi Meryl, how do you want to start the day?

Helping you compile resources and edit along the way.

Can I help with anything else?

View full prompt library

Joule uses AI, verify results.

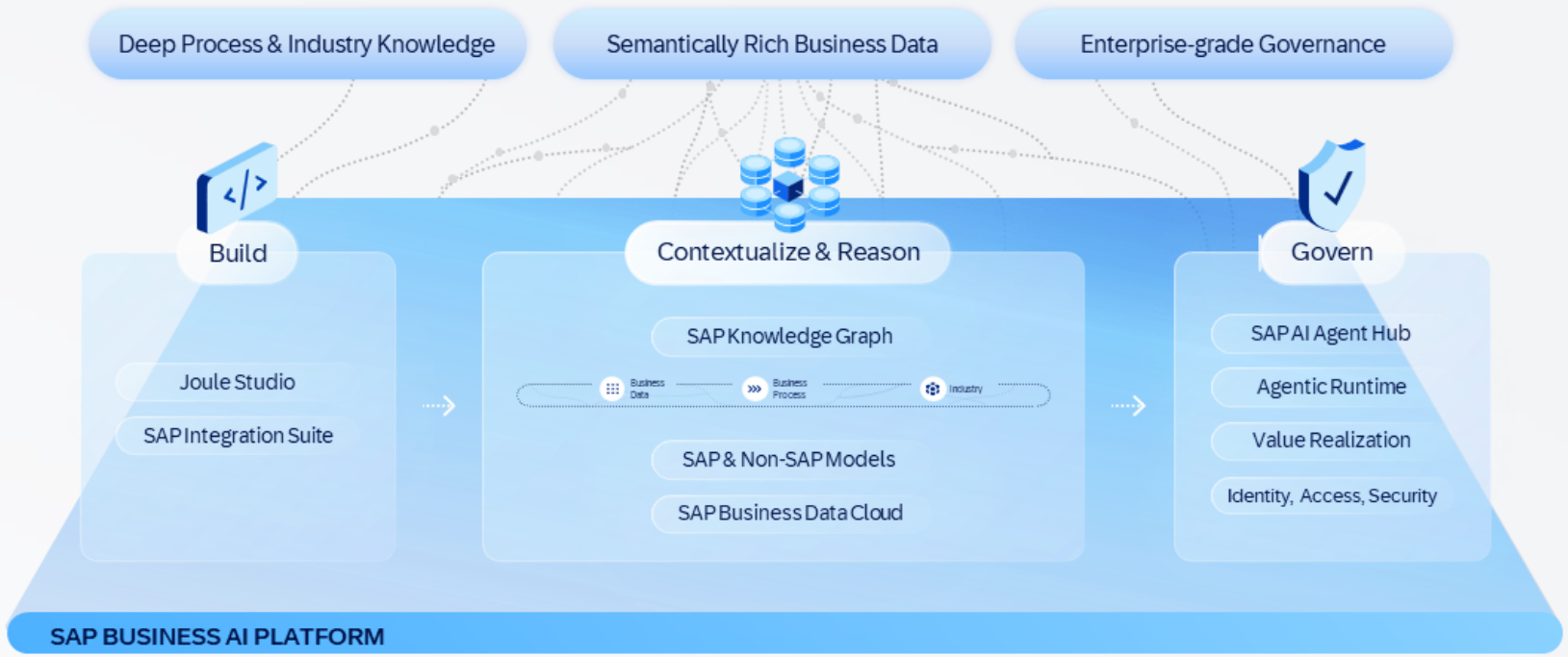
SAP Sapphire

Autonomous Supply Chain – Product Design Assistant

May 2026

The platform for building, running, and governing AI your business can actually depend on

The foundation that combines deep process context, unified business data, and purpose-built models with enterprise-grade governance



Build: Build AI agents & apps with best-in-class tools & models

300+ Agents built by Partners in SAP Joule Studio

Contextualize & Reason: 50 years of encoded business process expertise

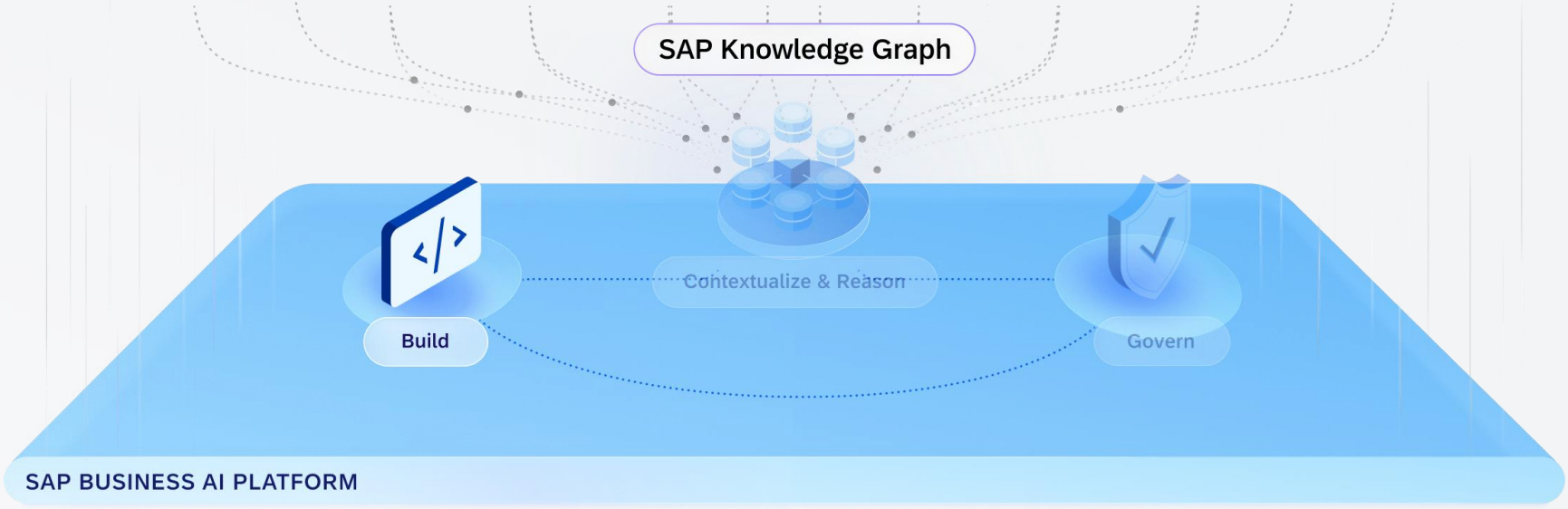
7.3M Data fields in Knowledge Graph

Govern: Command center for enterprise-wide AI agent governance

>55k AI agents managed in SAP AI Agent Hub across customers

Build

Turn ideas into enterprise impact. One solution to build AI agents, apps, and workflows then deploy them without operational overhead and seamlessly connect them to your system.

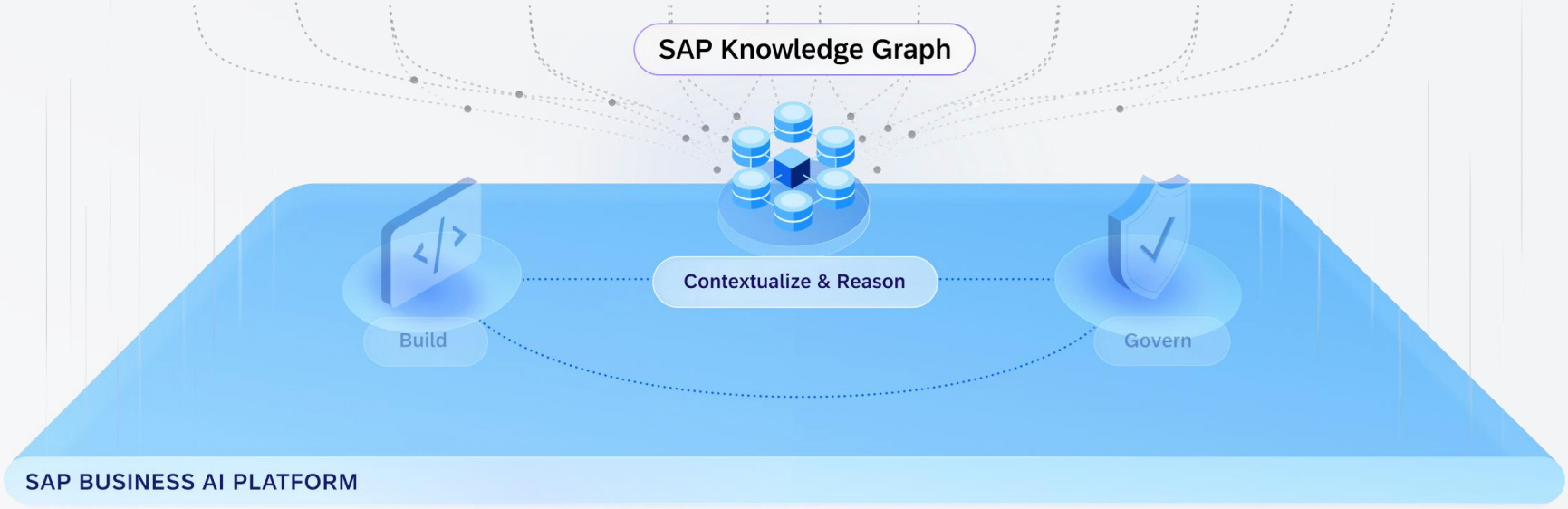


Joule Studio

Integration Suite

Contextualize & Reason

Gain a complete understanding of your business and operationalize decades of process knowledge by combining business process logic, rich operational data products, purpose-built models and global industry deployments.



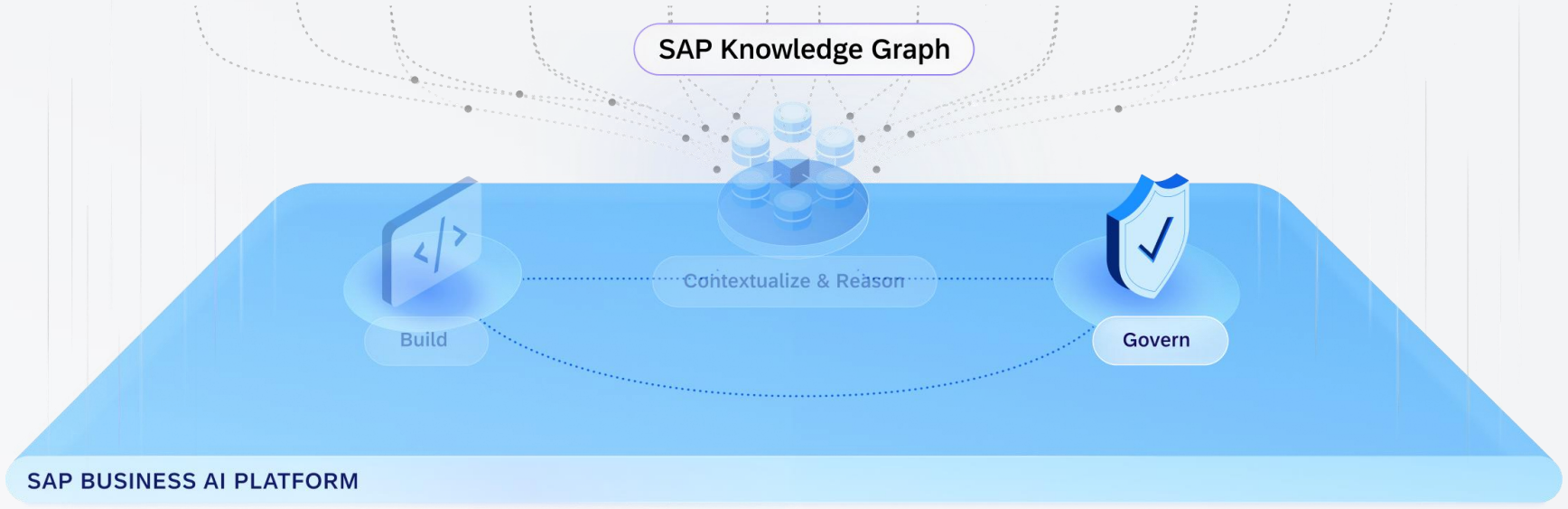
SAP Knowledge Graph

SAP & non-SAP Models

SAP Business Data Cloud

Govern

Ground your AI strategy in the organization's unique architecture and process intelligence to continuously tracks where AI is creating value and identify where it could create more.



SAP AI Agent Hub | Joule Studio runtime | Value Realization | Identity, Access, and Security

Solutions

New

All statuses

All types

Anytime

Three way match agent

Last updated 05/10/2026 9:33 AM

Automated invoice processing
matching across SAP systems
a team of 10 handling 50,000

1 Agent | 4 Workflows | 3 M

Real estate agent

Last updated 05/10/2026 6:28 AM

AI agent for Joule with n8n orc
estate property viewing schedu
Cloud v2, S/4HANA RE-FX, Su

1 Agent | 5 Workflows | 1 M

Three way match agent Deployed

Open

Overview | Monitoring

Welcome, Maria Kondratyeva

What do you want to create?

Agent

Create and deploy custom agents tailored to your SAP landscape and business processes.

Create

n8n Workflow

Build agentic workflows that orchestrate SAP and n8n agents and automations across the enterprise.

Create

Application

Build a web application to allow users to manage business data from SAP systems.

Create

Extension

Develop custom solutions such as agent extensions, data model extensions, and agent skills.

Create

Describe the solution you want to build with Joule Studio...

Quick Create ×

AI generated. Verify results.

Three way match agent

Called 2 tools

completed successfully! Let me save the

y_result.json

pleted successfully!

what was done before deploying:

Action	Result
ean_translation_file.py MCP servers	✅All clean
d 43 non-compliant tools : suffixes _2 ... _13 → letter _B ... _M)	✅Supplier Invoice: 13, PO: 30
serverCard.json for all 3 rvers	✅All 3 regenerated
d solution to BTP	✅Completed

35b-52fb-4e7d-bcdd-4d50be8cc631

live, the OpenTelemetry monitoring (traces, ency) will start appearing in the SAP AI Core rd as soon as the first requests come in.

Message Joule...

AI generated. Verify results.

Joule Work

Web
Desktop
Mobile
Voice

EAC June 1

It gets powerful.

Joule Assistants & Agents

Launch of

50+

Joule Assistants

~200

Joule Agents

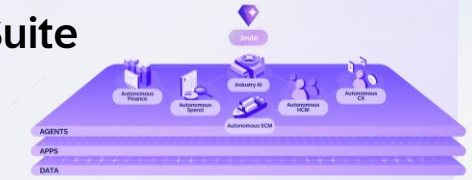
SAP-managed Joule

Agent-led transformation

SAP for Me
ECC Connector

Agent2Agent Full Interoperability

Autonomous Suite



Industry AI

RELTIO

Harmonized Master Data

BDC x HANA x dremio

Tables on the fly

Seize your opportunity.

SAP Business AI Platform

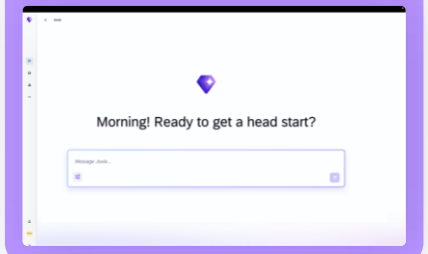
Build

Joule Studio Runtime

Available Q2/2026

Joule Studio 2.0

Available Q2/2026



Contextualize & Reason

SAP RPT-1.5

PRIOR TabPFN-3

Knowledge Graph

Govern

SAP AI Agent Hub
Full Agent Lifecycle

What we've announced at Sapphire