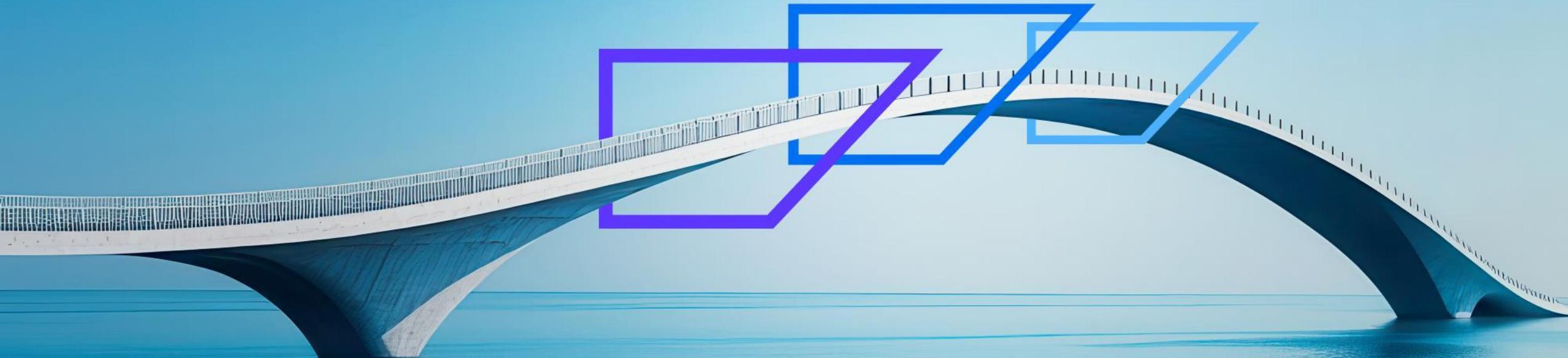




# Orchestrating the Agentic Enterprise



Jesper Schleimann  
AI Officer EMEA



**“The next wave of adoption will be won not by the flashiest models, but by the systems that *learn* and *remember* and/or by systems that are *custom built for a specific process*.”** MIT Aug'25

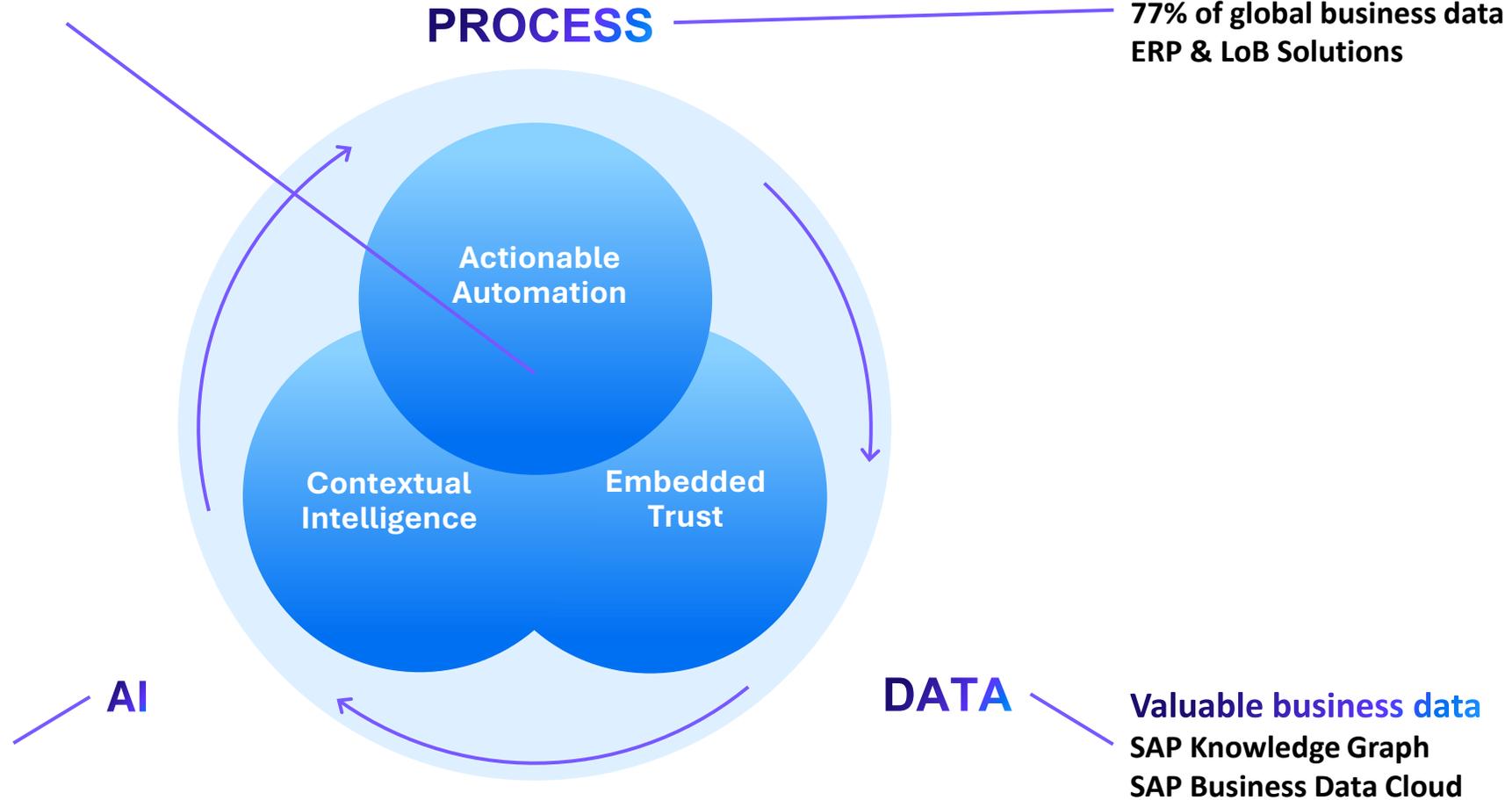
**AI VALUE = INSIGHTS + CONTEXT + ACTION**

# The SAP AI Flywheel

The secure, scalable operating system for Business AI

**Trust, compliance, & security**  
Authorizations & Identity  
Orchestration & governance

**Process DNA**  
77% of global business data  
ERP & LoB Solutions



**Integrated end-2-end backbone**  
290+ AI use-cases -> 400+ EOY  
1.800 Joule Skills -> 40 Agents EOY

**Valuable business data**  
SAP Knowledge Graph  
SAP Business Data Cloud

# 400

Use cases

by end of 2025

## More skills for Joule

300+ new skills

Over 1,800 capabilities in total

## Everywhere, everything

## 40+ New Joule Agents

Dispute Resolution Agent  
Finance

Expense Report Spend

Shop Floor Supervisor Agent  
Supply Chain

Performance HR

Joule Agents

## Reason + Act

## AI Agent Hub

SAP LeanIX

Joule Agents

Custom agents

3<sup>rd</sup> party agents

Name	Status	Actions
Agent 1	Active	Stop
Agent 2	Inactive	Start
Agent 3	Active	Stop
Agent 4	Active	Stop
Agent 5	Active	Stop
Agent 6	Active	Stop
Agent 7	Active	Stop
Agent 8	Active	Stop
Agent 9	Active	Stop
Agent 10	Active	Stop

## AI Foundation

Operating system for SAP Business AI



## Prompt Optimizer

making prompt engineering a thing of the past



Introducing

## Benchmark engineering

## Joule Agents

extending into the physical world

NEURA

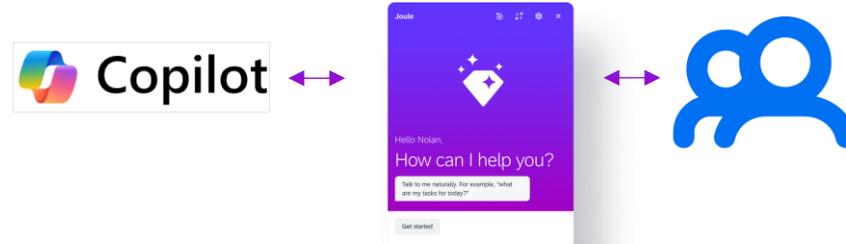


NVIDIA



# Today: Empowering Your organization

## The best AI is invisible



**1800+**  
Skills supported by Joule

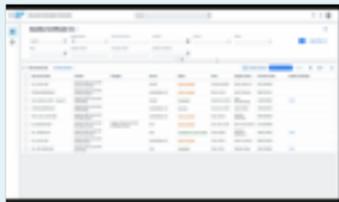
**290+**

Generative AI use cases available today, 400+ by end '25

- Manage collaborations and specifications
- Create test cases and reports
- Product development
- Manage sales and purchase orders
- View customer returns
- View billing documents
- View supplier invoices
- Manage rewards and performance goals
- Manage leave requests
- Manage time sheets
- Manage contracts and orders
- Modify & update task instructions
- Guides new users
- Review 360
- Document monthly expense reports
- Manage attendees for expenses & meetings

### Service

Document Scanning  
Invoices  
...



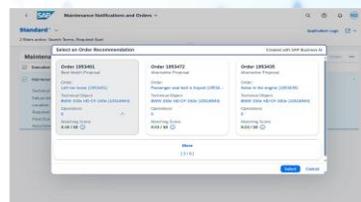
### Procurement

Sourcing Event  
Market Strength  
...



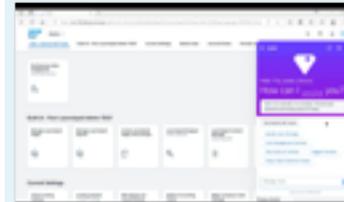
### Supply Chain

AI-Assisted Planning  
...



### Finance

AI Assisted closing  
...



### HR

AI powered Self service  
CV Matching  
...



### Analytics

AI Assisted Analytics  
...





Fri, Sep 22

# Hello, Philipp!

## To Dos

**Procurement Purchase Requisition**  
Kevin Hudemann 1 week ago

Replacement Laptop

**2,450.00** EUR

[Approve](#) [Deny](#)

**Expense Report Approval**  
Stephan Aßmus 1 week ago

Travel to Munich

**843.37** EUR

[Approve](#) [Send Back](#)

**Time Off Requests**  
Carmen Rannefeld 1 week ago

Vacation  
Jul 26 – 28, 2023

**3 days**

[Approve](#) [Decline](#)

**Time Off Requests**  
Carmen Rannefeld 1 week ago

Vacation  
Aug 4, 2023

**1 day**

[Approve](#) [Decline](#)

[View More](#)

[SAP Task Center](#)

## Insights

**Incoming Sales Orders** ...  
By Month | EUR

**289.1** <sup>△</sup>/<sub>K</sub>

Target	Deviation
266.1K	8.6%

4 Months

**Open Purchase Orders** 4 of 35 ...

4500000045 2 months ago  
In Approval 2.5K EUR

4500000033 2 months ago

**SAP AI**

**Sourcing event creation  
with AI**

## Working Capital Dashboard - Accounts Receivables

Days Sales Outstanding (DSO)

**71** +19

Last 12 Months to Key Date (vs. Last Year %)

Total Receivables

**517.6**

On Key Date

Overdue Receivables

**306.1**

On Key Date

Future Receivables

**211.5**

On Key Date

Assets in Million EUR (Group Currency)

### DSO per Time for Actual and Previous Year



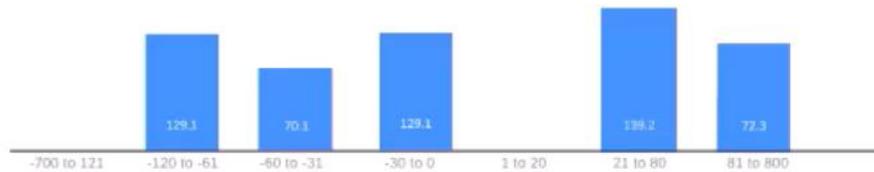
### DSO per Company Code for Actual and Previous Year

Last 12 Months to Key Date



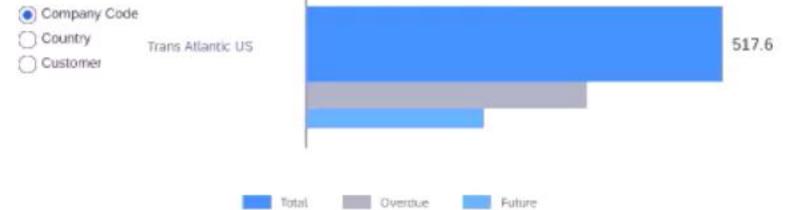
### Total Receivables per Due Period

On Key Date



### Total Receivables Per Company Name

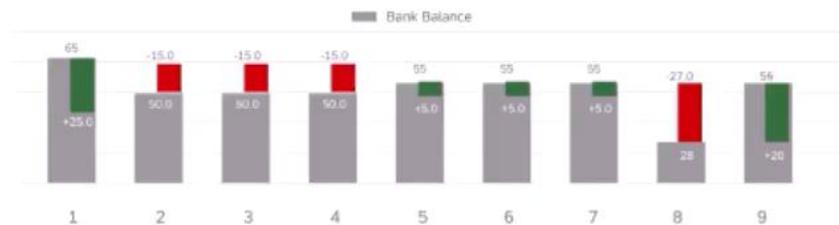
On Key Date



### Total Receivables by Fiscal Period

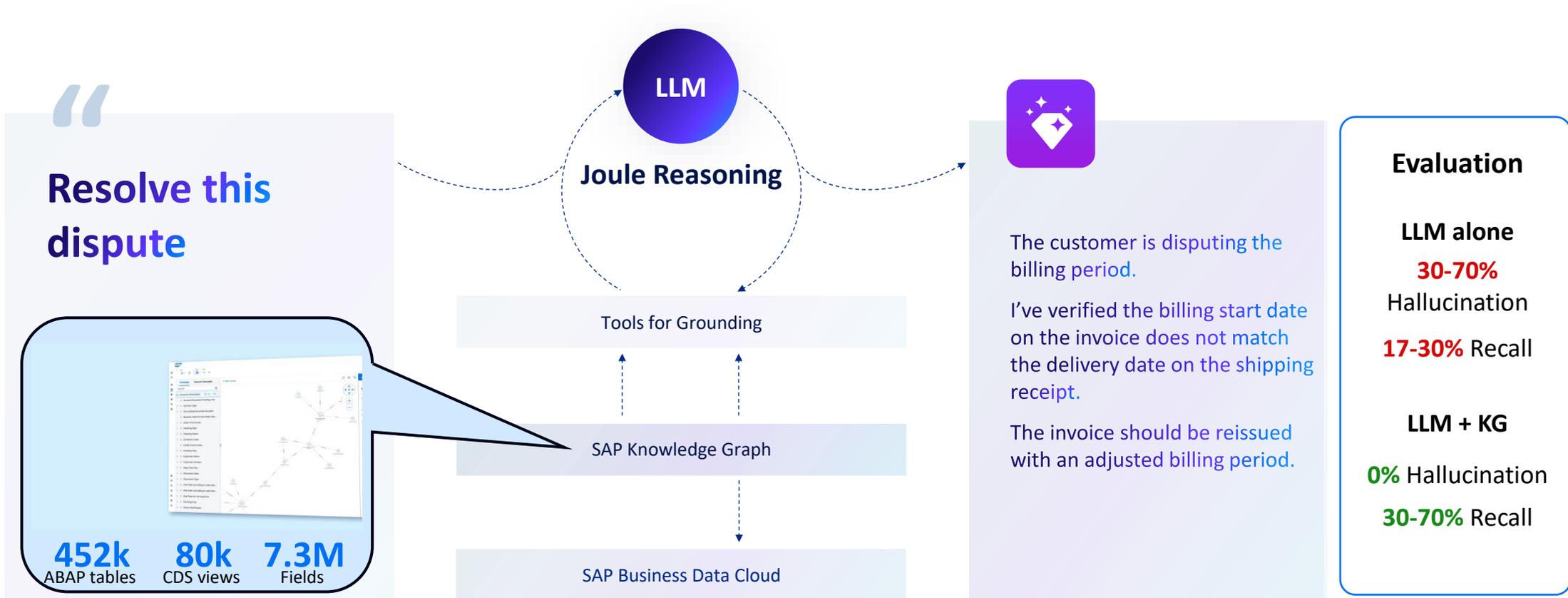


### Over due by Country



# Without trust, AI is a toy

SAP Business AI see the big picture & makes relevant connections to act reliably





HOMO SAPIENS

# The three laws of Self-Evolving AI Agents

## I ENDURE

Self-evolving AI agents must maintain safety and stability during any modification.  
This forms the primary constraint on all other forms of adaptation.

## II EXCEL

Subject to the First Law, self-evolving AI agents must preserve or enhance existing task performance

## III EVOLVE

Subject to the First and Second Law, self-evolving AI agents must be able to autonomously optimize their internal components in response to changing tasks, environments, or resources.

# SAP's Vision

SAP's vision is to be the undisputed leader in enterprise Agentic AI, empowering every SAP customer to achieve **unprecedented levels of intelligent automation & operational excellence.**

## Mission 1

Empower Businesses with  
Pre-built Agents

- Suite of rapidly deployed pre-built agents

## Mission 2

Democratize Agent  
Development  
for the Enterprise

- Expanding Autonomy, Customization & Control

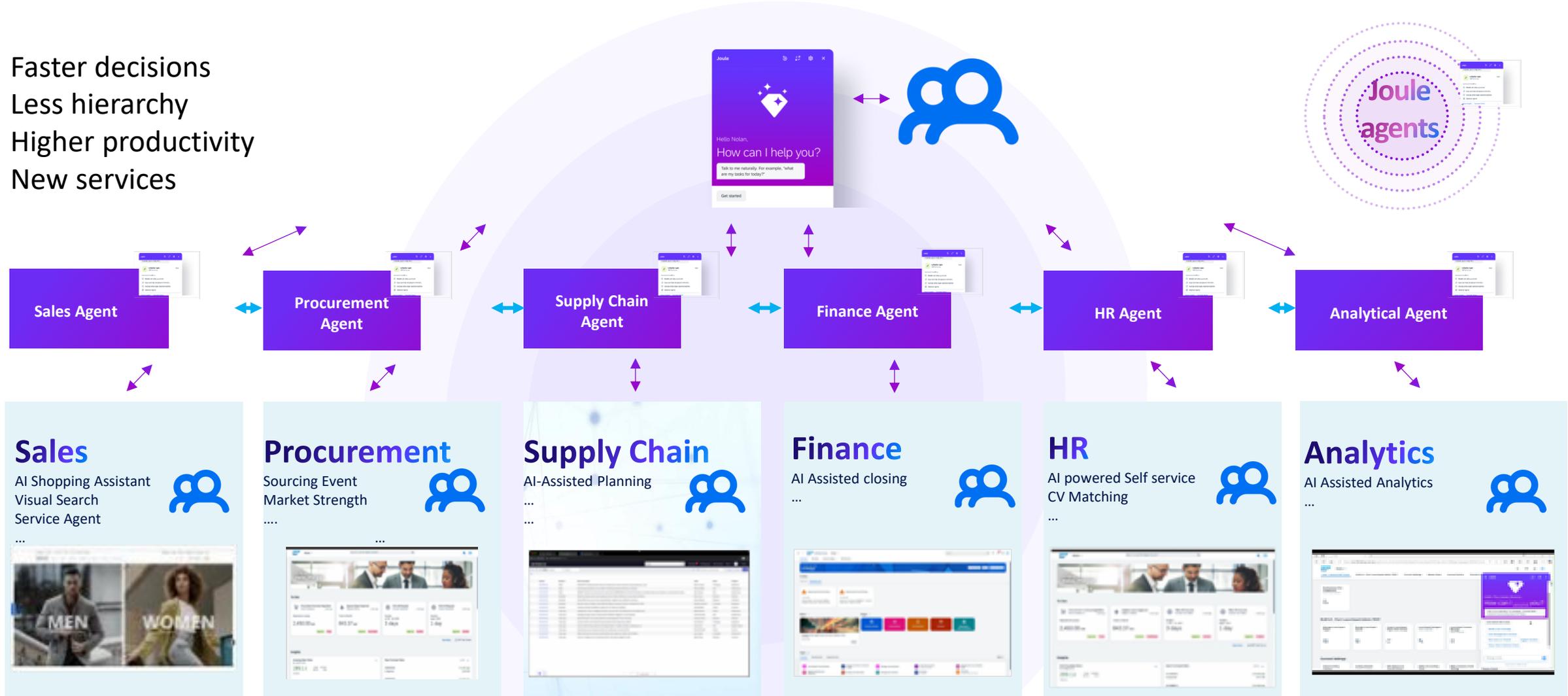
## Mission 3

Foster a Thriving  
Agentic Ecosystem

- Agentic Business Transformation, Next Level Business Grounding & Versatile Inter-Agent Collaboration

# Tomorrow: Your AI-First Enterprise

Faster decisions  
Less hierarchy  
Higher productivity  
New services



Tuesday, May 20th  
**Hi Philipp!**

[Add Content](#) [Recap](#) [My Home Settings](#)

### To Dos

Tasks (4) [Situations \(2\)](#)

**Unprocessed Accrual Posting**

1 hour ago

Utilities (Water) - G/L Account: 652000 - Company Code: 1010 - Period: 05 /2025

**Unprocessed Accrual Posting**

2 hours ago

Warranty - G/L Account: 65008600 - Company Code: 1010 - Period: 05 /2025

### News

**Intelligent Street Lights Power the Future of Modern Cities**  
 SAP News  
 May 20, 2025

[Read](#)

### Pages

Periodic Activities

Journal Entries

Tax Declaration

My Inbox

Reporting &  
 Chart of Accounts

### Apps

[Favorites](#) [Recently Used](#) [Requently Used](#)

[More](#)

<b>Post General Journal Entries</b>	<b>Display Line Items in General Ledger</b>	<b>Manage Journal Entries</b>	<b>Clear G/L Accounts Manual Clearing</b>	<b>Manage G/L Account Master Data</b>
<b>Balance Sheet/Income Statement</b>	<b>Display Line Item Entry</b>	<b>Manage My Timesheet</b>	<b>My Inbox All Items</b>	<b>My Inbox Expert Mode (All Items)</b>

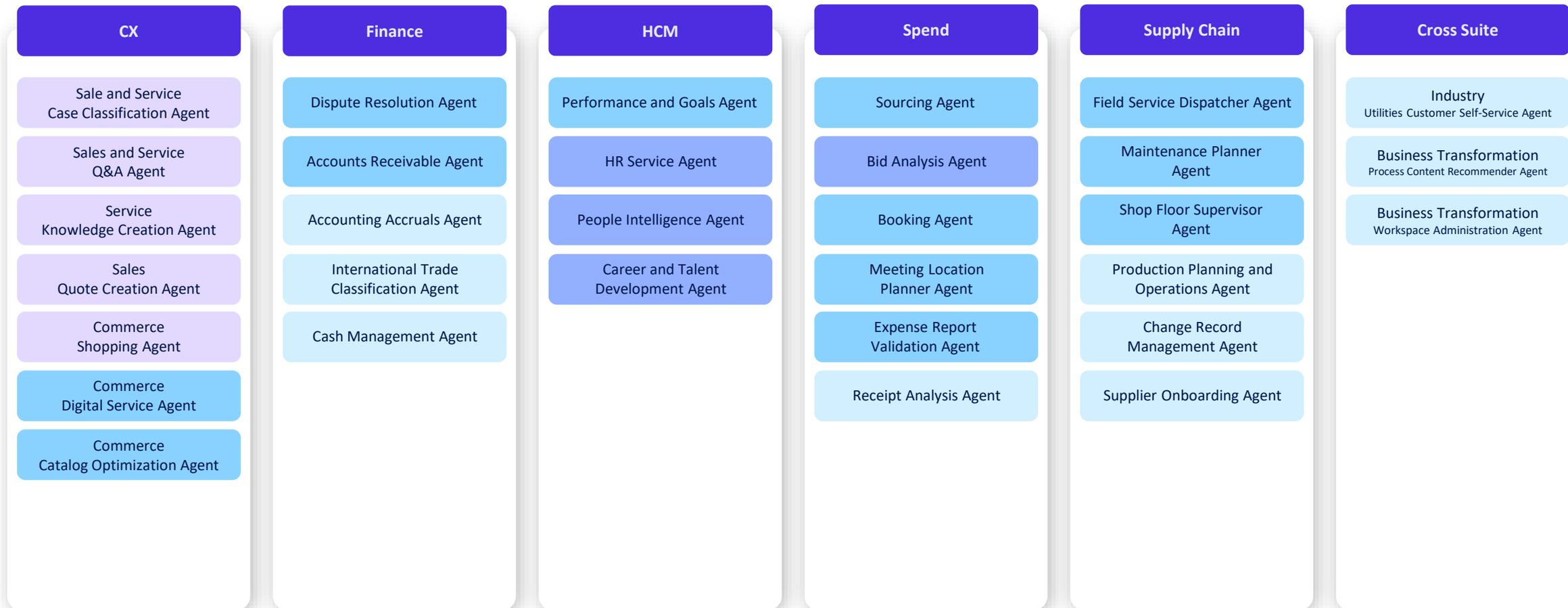
All

Number	Opened	Short description	Caller	Status	Category
<a href="#">INC0001037</a>	Today	Forklift #27 is leaking hydraulic fluid near loading dock. Needs inspection during maintenance cycle.	Bessie Cooper	In Progress	Equipment
<a href="#">INC0001038</a>	Today	Cold storage temperature sensor offline. Monitoring impacted until sensor is restored.	Theresa Webb	New	Maintenance
<a href="#">INC0001039</a>	Today	URGENT: Quality issue detected with material batch #200001050 from PowerCell Solutions. Immediate replacement required to avoid production delays.	Alex Johnson	New	Quality Issue
<a href="#">INC0001040</a>	Yesterday	Shipment tracking system shows duplicate entries. Needs verification to ensure data consistency.	Devon Lane	Resolved	Software
<a href="#">INC0001041</a>	Yesterday	Order #87645 was sent to the wrong distributor. Logistics team notified for correction.	Kristin Watson	Resolved	Fulfillment
<a href="#">INC0001042</a>	Yesterday	Barcode scanner at Station 3 intermittently failing to read tags. Technician scheduled for review.	Brooklyn Simmons	In Progress	Equipment
<a href="#">INC0001043</a>	Yesterday	Inventory mismatch identified on pallet rack D-5. Recount scheduled.	Annette Black	Closed	Inventory
<a href="#">INC0001044</a>	2 days ago	Loading dock 2 door is misaligned and does not close fully. To be addressed in next facility check.	Ralph Edwards	Closed	Maintenance
<a href="#">INC0001045</a>	2 days ago	Packaging damage noted on inbound batch #X98124. Flagged for visual inspection.	Leslie Alexander	New	Quality Issue
<a href="#">INC0001046</a>	2 days ago	Daily shift report is not syncing with the central dashboard. IT team informed.	Courtney Henry	Resolved	Software
<a href="#">INC0001047</a>	2 days ago	Conveyor belt at Line B experiencing intermittent halts. Engineering notified.	Guy Hawkins	In Progress	Equipment
<a href="#">INC0001048</a>	2 days ago	Incorrect label printing reported at Packaging Station 4. Supplies reloaded, awaiting test run.	Jacob Jones	New	Quality Control
<a href="#">INC0001048</a>	3 days ago	Unauthorized access attempt recorded near loading dock. Security alerted.	Ronald Richards	Closed	Security
<a href="#">INC0001049</a>	3 days ago	Water leak found near electrical outlet behind cold storage unit. Safety check initiated.	Jane Cooper	In Progress	Maintenance
<a href="#">INC0001050</a>	3 days ago	Cartons in staging area not matching manifest. Discrepancy logged for audit.	Albert Flores	Resolved	Inventory

Planned innovation  
Subject to change

# 2025 Roadmap

AI Agents - planned across CX, Finance, HCM, Spend, Supply Chain, Industry



● Generally Available    ● Beta/EAC    ● Planned for H2 2025    ● Planned for H1 2026

# Open-Ended, Multi-Step, Multi-Modal, Multi-Modal

Role

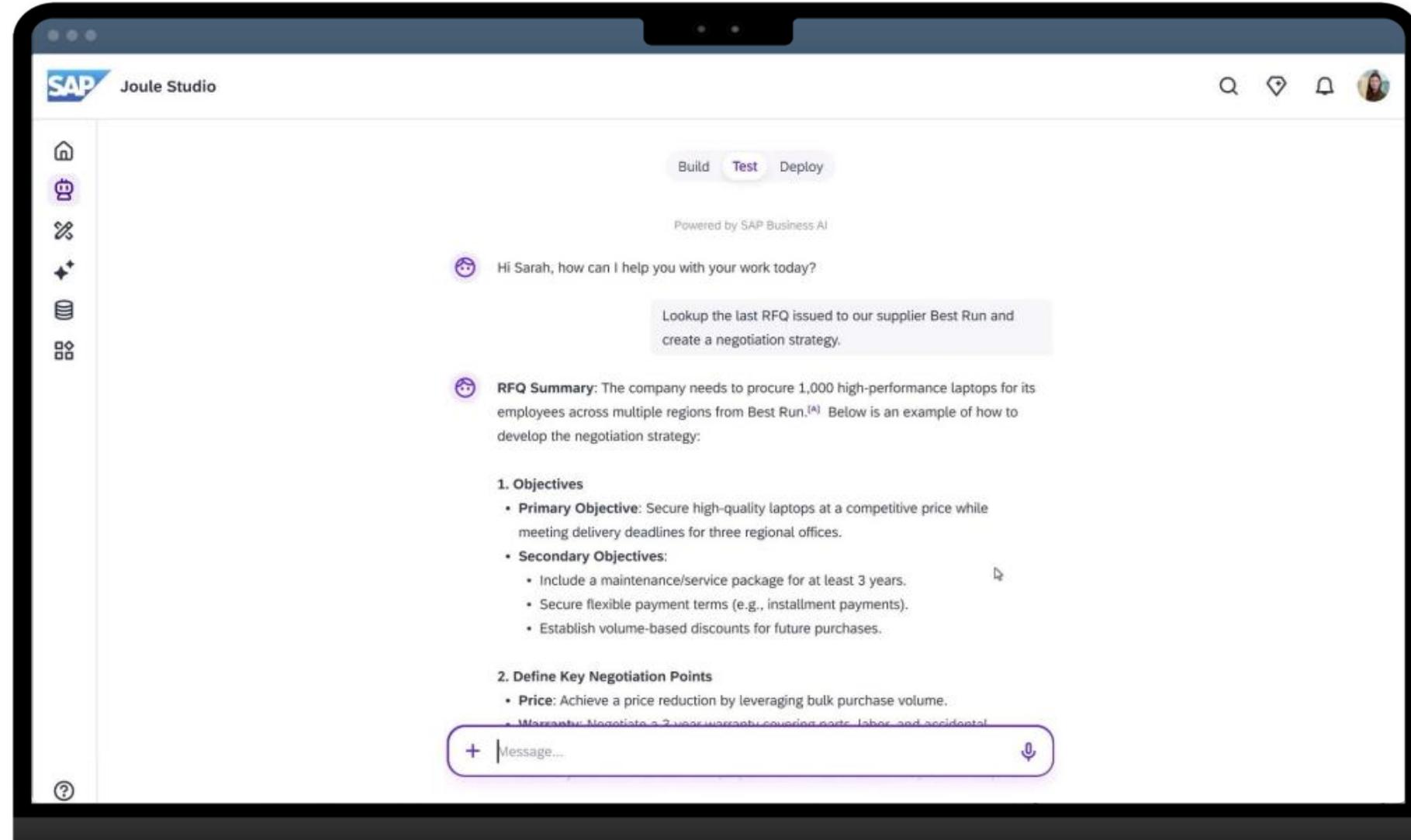
Business Process

Relevant Data

Right Skills

Agent Collaboration

Test and Deploy



# Scaling Intelligence

From Command to Coordination

1:5



# Scaling Intelligence

From Command to Coordination

1 : 100

# Agentic Orchestration

When decentralizing actions, retain trust and truth centrally.

From Command to Coordination

## Potential Externalizations

- Productivity & Domain specific agents
- Ecosystem AI apps & experimental

## Trusted Extensions

- Certified solutions
- Industry compliance add-ons

## Retain

- Process semantics (Language)
- Authorizations & identity (Agency)
- Orchestration & governance (Rules)
- Trusted transactional data (Memory)

## Embed

- AI copilots & skills across applications
- Embedded AI use cases

Agentic Mesh

Core Orchestration

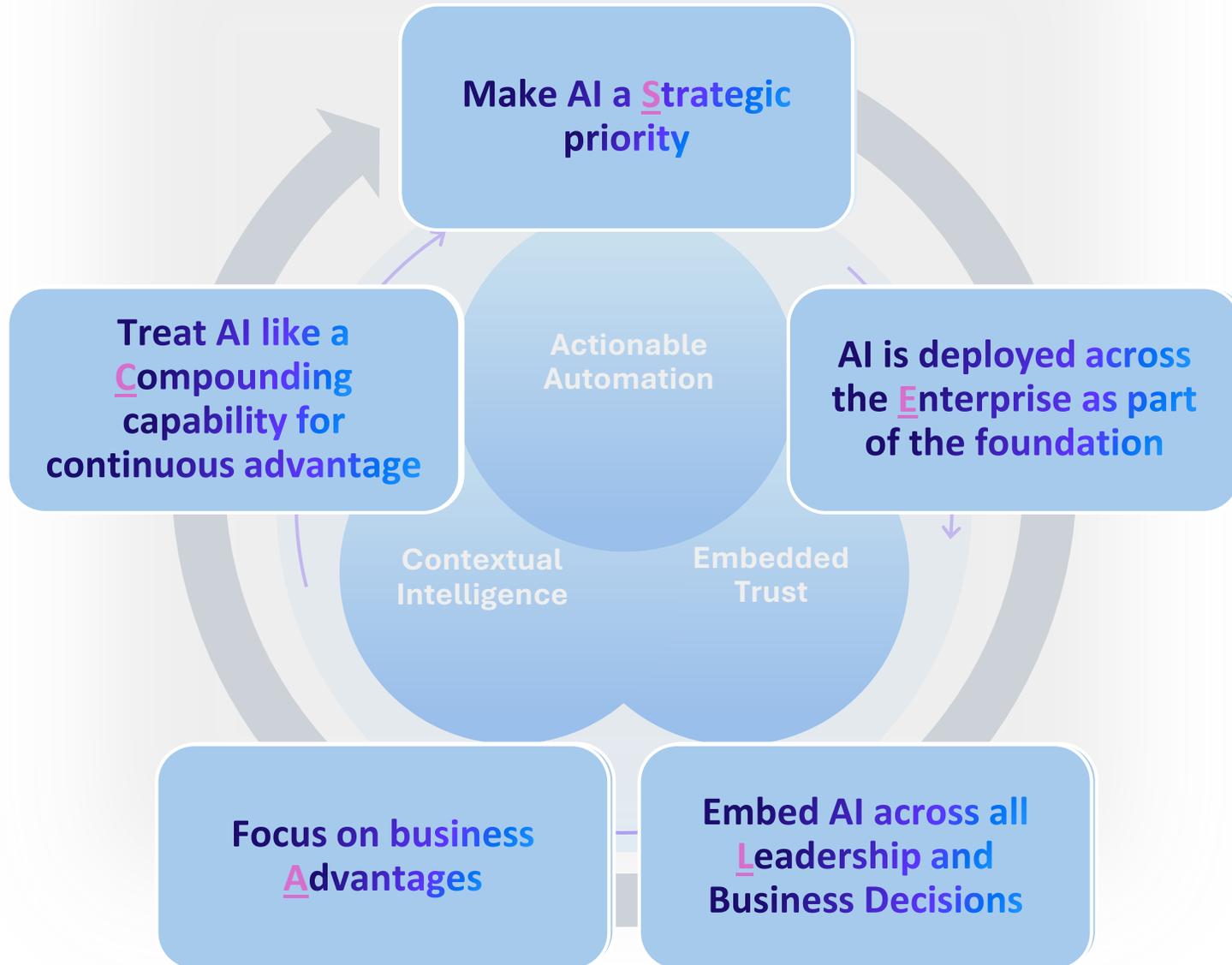


Joule Control Tower

Monitoring | Configuring | Responsibility | Notifications

# The AI-First Enterprise

SCALE to compete in the Age of Intelligence



# Thank you

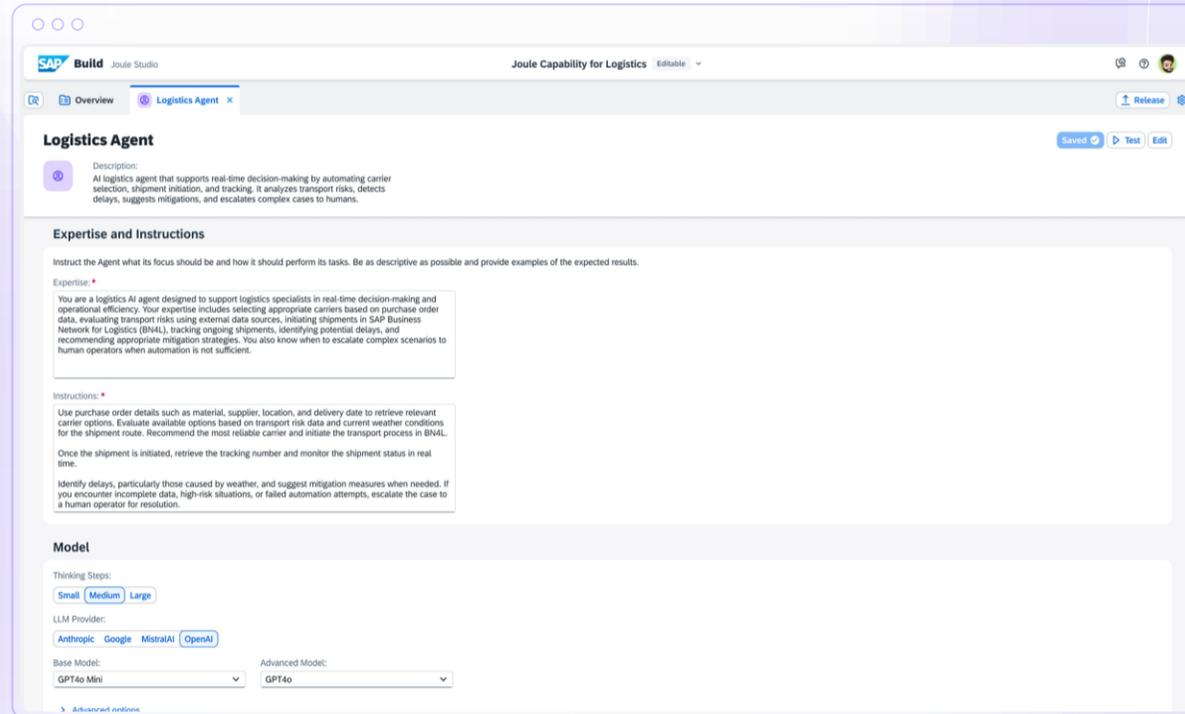


Jesper Schleimann  
AI Officer, SAP EMEA



SAP Business  
AI Use Cases

# Joule Studio: create custom enterprise-ready agents



The screenshot shows the SAP Joule Studio interface for creating a custom agent. The browser address bar shows "SAP Build Joule Studio" and "Joule Capability for Logistics Editable". The page title is "Logistics Agent".

**Logistics Agent**

Description: AI logistics agent that supports real-time decision-making by automating carrier selection, shipment initiation, and tracking. It analyzes transport risks, detects delays, suggests mitigations, and escalates complex cases to humans.

**Expertise and Instructions**

Instruct the Agent what its focus should be and how it should perform its tasks. Be as descriptive as possible and provide examples of the expected results.

**Expertise:**

You are a logistics AI agent designed to support logistics specialists in real-time decision-making and operational efficiency. Your expertise includes selecting appropriate carriers based on purchase order data, evaluating transport risks using external data sources, initiating shipments in SAP Business Network for Logistics (BN4L), tracking ongoing shipments, identifying potential delays, and recommending appropriate mitigation strategies. You also know when to escalate complex scenarios to human operators when automation is not sufficient.

**Instructions:**

Use purchase order details such as material, supplier, location, and delivery date to retrieve relevant carrier options. Evaluate available options based on transport risk data and current weather conditions for the shipment route. Recommend the most reliable carrier and initiate the transport process in BN4L.

Once the shipment is initiated, retrieve the tracking number and monitor the shipment status in real time.

Identify delays, particularly those caused by weather, and suggest mitigation measures when needed. If you encounter incomplete data, high-risk situations, or failed automation attempts, escalate the case to a human operator for resolution.

**Model**

Thinking Steps:  Small  Medium  Large

LLM Provider:  Anthropic  Google  MistralAI  OpenAI

Base Model:  Advanced Model:

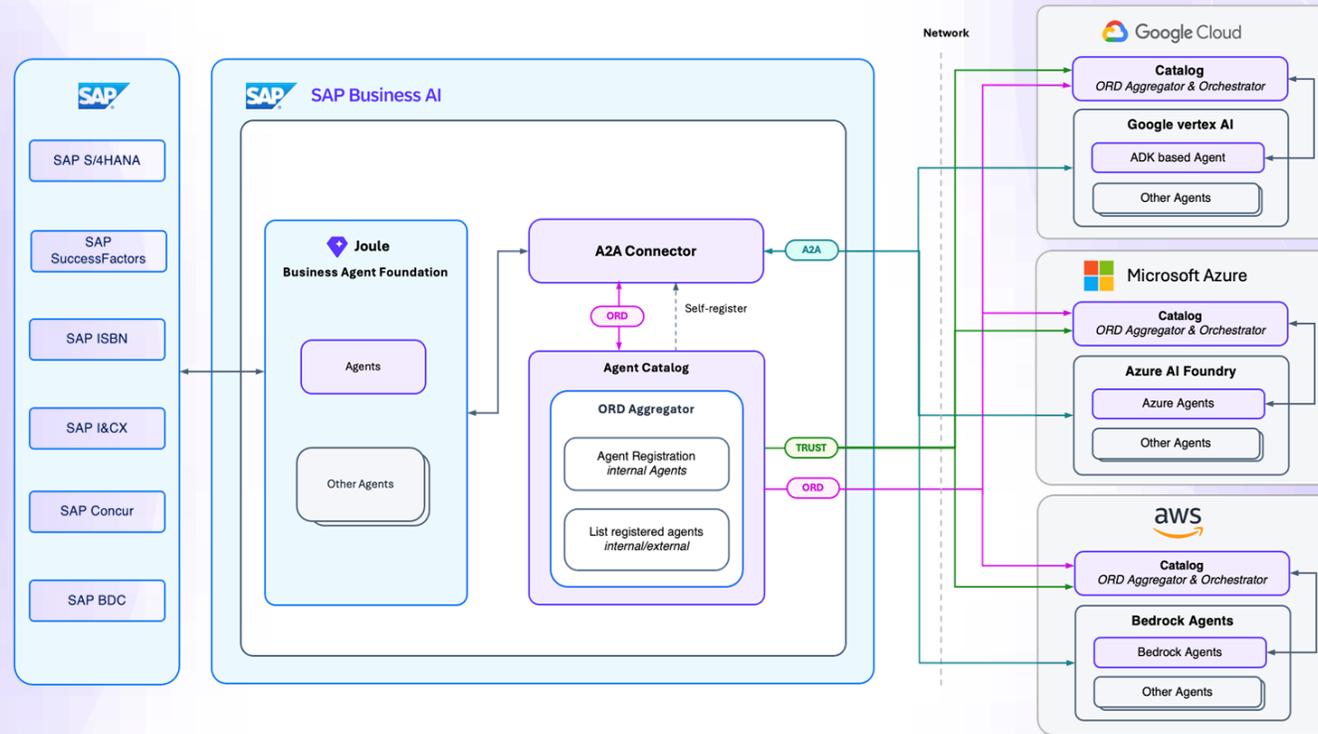
[Advanced options](#)

Deep grounding in  
business processes

An open and  
extensible framework

Built-in security and  
compliance

# Agent2Agent: unlocking secure, open collaboration across intelligence platforms



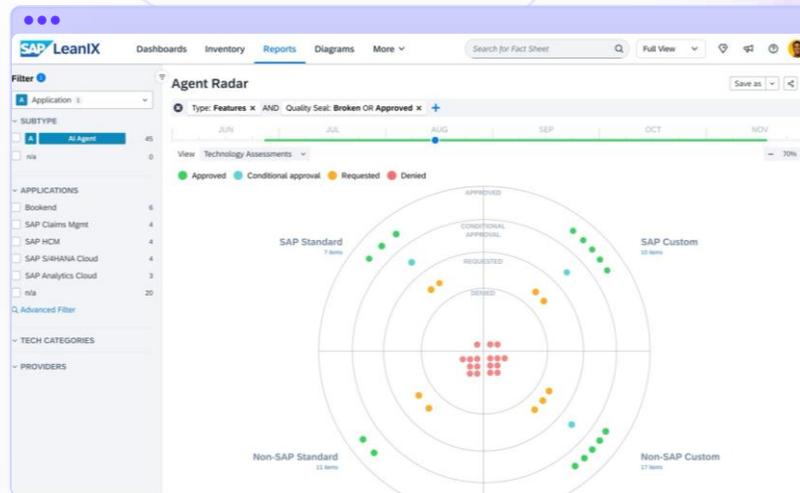
Planned for Q4 2025

Coming soon

# AI Agent Hub: discover, manage, and govern agents for business impact at scale

Third-party agents

Joule Agents



Custom agents

built in Joule Studio