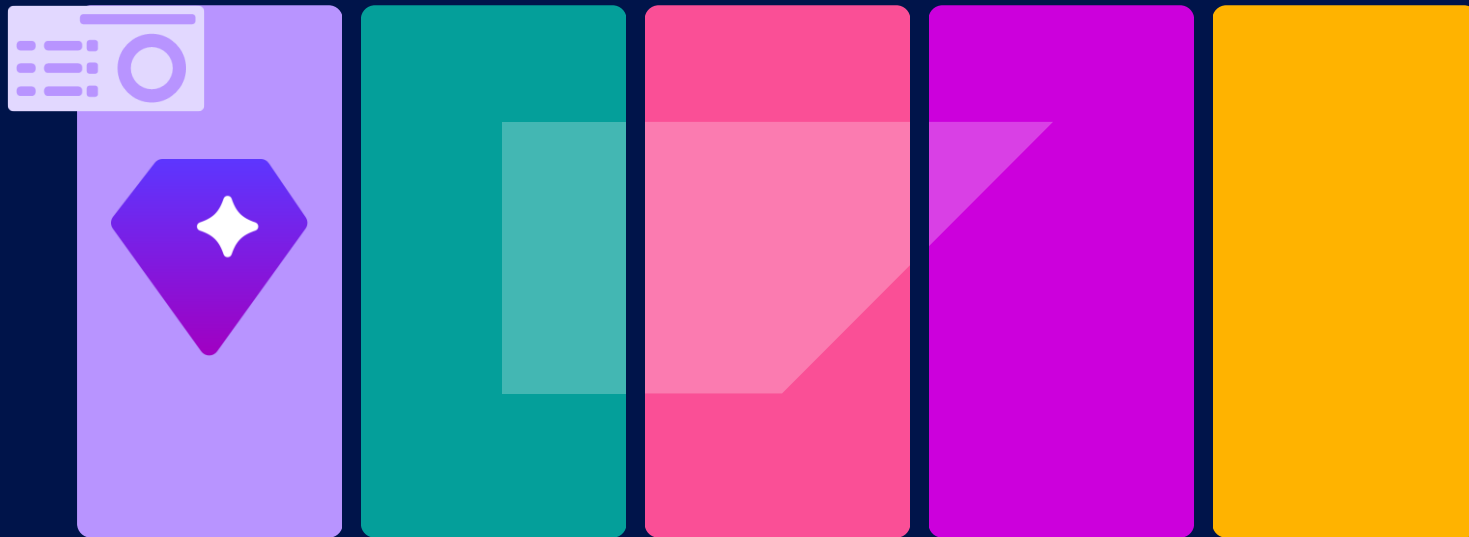


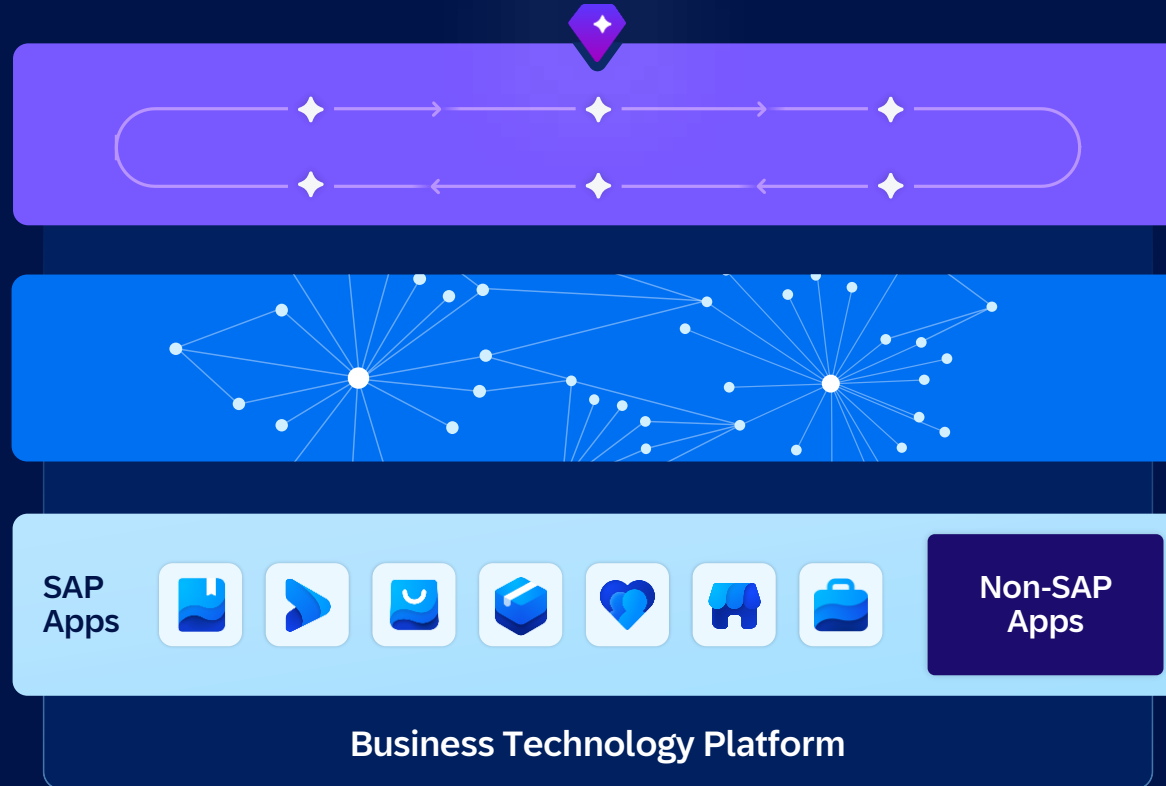
SAP Regional AI lead

Philip Johannesson





Build, extend & run AI



SAP Business AI



Joule

as the new super orchestrator across end-to-end processes



Custom AI
based on AI Foundation

Embedded AI capabilities

Financial
Management

Supply Chain
Management

Human Capital
Management

Spend
Management

Customer
Experience

Business
Technology
Platform

AI Foundation

The AI operating system to build, extend, and run custom AI solutions and AI agents at scale

on SAP Business Technology Platform

AI ecosystem partnerships and investments



ANTHROPIC



←----- AI-assisted **Cloud Transformation** -----→

AI Foundation

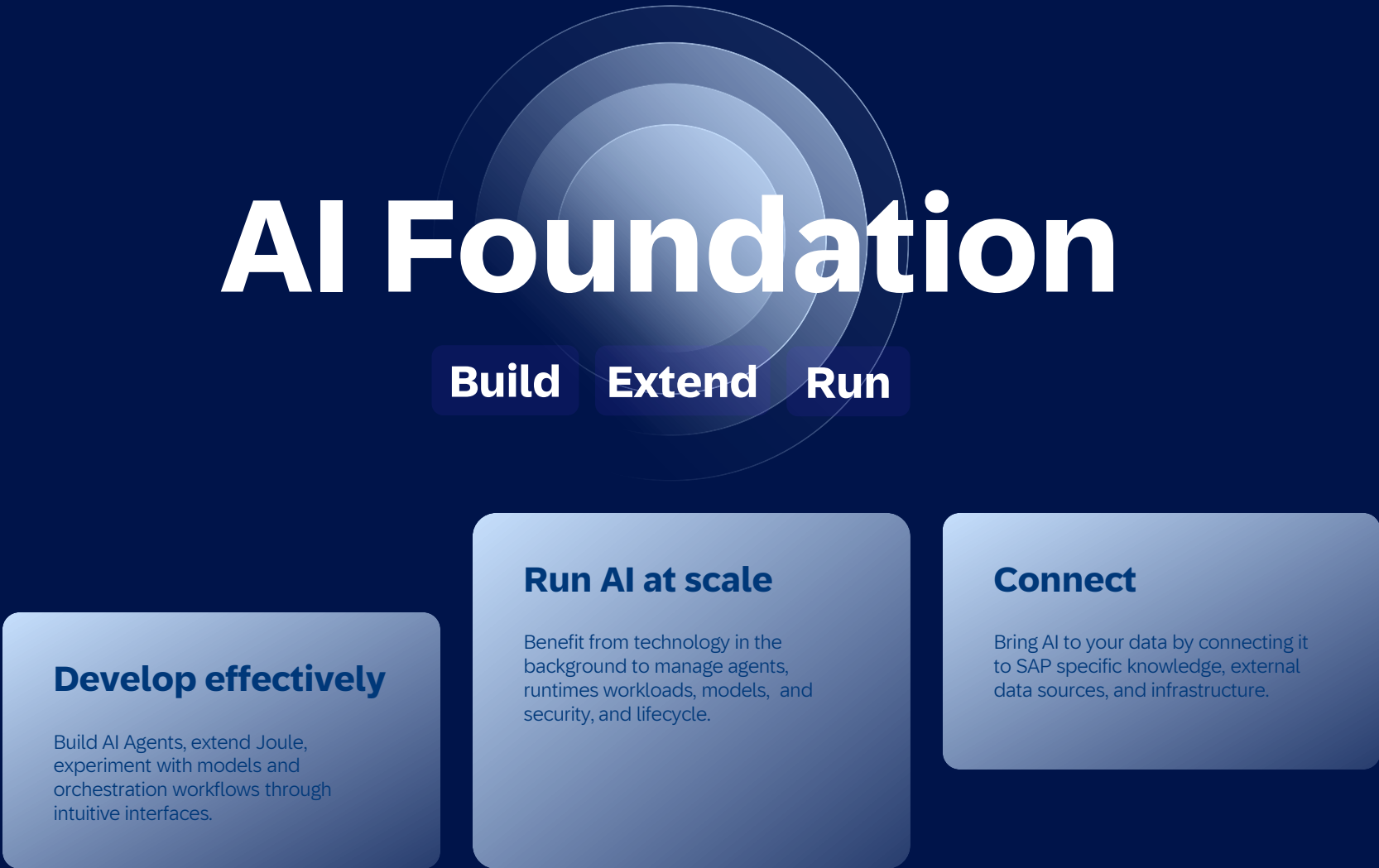
the **AI operating system**

to **Build** custom AI at scale

Extend

Run



The diagram features a central graphic of three concentric circles in shades of blue. Overlaid on the middle circle is the text 'AI Foundation' in a large, bold, white sans-serif font. Below this, the words 'Build', 'Extend', and 'Run' are each enclosed in a dark blue rounded rectangle, arranged horizontally. At the bottom, there are three light blue rounded rectangular boxes. The left box is titled 'Develop effectively' and describes building AI agents. The middle box is titled 'Run AI at scale' and describes benefiting from background technology. The right box is titled 'Connect' and describes bringing AI to data by connecting to SAP knowledge and external sources.

AI Foundation

Build

Extend

Run

Develop effectively

Build AI Agents, extend Joule, experiment with models and orchestration workflows through intuitive interfaces.

Run AI at scale

Benefit from technology in the background to manage agents, runtimes workloads, models, and security, and lifecycle.

Connect

Bring AI to your data by connecting it to SAP specific knowledge, external data sources, and infrastructure.

AI Foundation

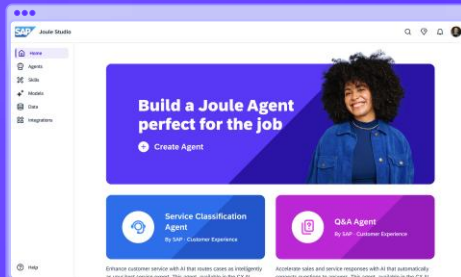
Leverage a powerful set products to build, connect and run custom AI solutions and agents

Build Agents



Building custom AI agents in an low-code environment

Joule Studio in SAP Build

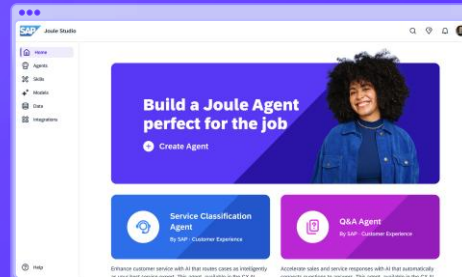


Extend Joule



Facilitates seamless, low-code customizations

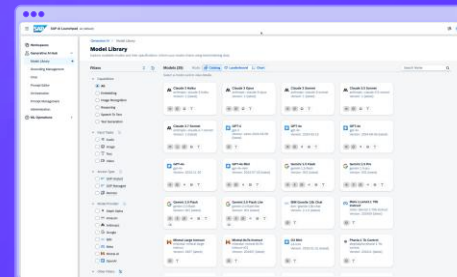
Joule Studio in SAP Build



Explore, orchestrate and productize AI

Experiment with models and productize gen AI at scale

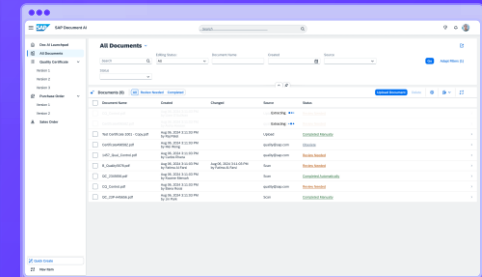
Generative AI hub



Automate document based processes

Process any structured and unstructured document

SAP Document AI



Core Technologies

SAP Knowledge Graph

SAP Foundation Model

and more ...

Model Library

Model Benchmarks

AI Ethics safety scores

Grounding service

AI Playground

Orchestration

Training & Serving Engine

Data Masking

Content Filter

Data center choice

AI SDKs

Security standards

SAP AI Foundation



Build, extend, and run custom AI solutions at scale

With the AI Foundation, businesses can accelerate AI-driven innovation, boost productivity with comprehensive AI development tools, and simplify AI operations with a unified system to reduce overall TCO.

Build now



Agents

Handle complex business tasks with planning, reasoning, and action

Build an Agent



Skills

Handle basic scenarios with deterministic actions

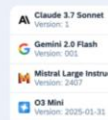
Build a Skill



Models

Experiment with models and orchestration for your custom AI capabilities

Experiment



SAP Document AI

Transform your business with AI-powered document processing

Get started



Explore more AI capabilities



Tabular AI
Convert tabular data into insights



Prompt Optimizer
Auto-optimize your prompt for any model



Knowledge Graph
Make domain knowledge AI ready



Orchestration
Design AI Workflows with pre-built modules



Security
Data privacy and Security

Joule Studio

New

Prompt Registry

New

Central AI Portal

New

Embedding Endpoint

New

Multi-model support

New

Prompt Optimizer

New

SAP Knowledge Graph

New

SAP Document AI

New

SAP Foundation Model

New

SAP ABAP LLMs

New

Translation module

New

Agent runtime

New

90+ already available

60+ new and updated

PH

Build, extend, and run custom AI solutions at scale

With the AI Foundation, businesses can accelerate AI-driven innovation, boost productivity with comprehensive AI development tools, and simplify AI operations with a unified system to reduce overall TCO.

Build now

Agents

Handle complex business tasks with planning, reasoning, and action

Build an Agent

Skills

Handle basic scenarios with deterministic actions

Build a Skill

Models

Experiment with models and orchestration for your custom AI capabilities

Experiment

AI Claude 3.7 Sonnet

Version: 1

Gemini 2.0 Flash

Version: 001

Mistral Large Instruct

Version: 2407

Q3 Mini

Version: 2025-01-31

SAP Document AI

Transform your business with AI-powered document processing

Get started

Explore more AI capabilities

Tabular AI
Convert tabular data into insights

Prompt Optimizer
Auto-optimize your prompt for any model

Knowledge Graph
Make domain knowledge AI ready

Orchestration
Design AI Workflows with pre-built modules

Security
Data privacy and Security

SAP Document AI

New

90+ already available

60+ new and updated

The cost of **Unstructured Data**

70-80%

of enterprise information
is unstructured

GARTNER, 2024

50-70%

Reduction in processing time
achievable through IDP

market.us, 2024

30\$

Cost of manually processing
a purchase order

Comparitio, 2024



SAP Document AI

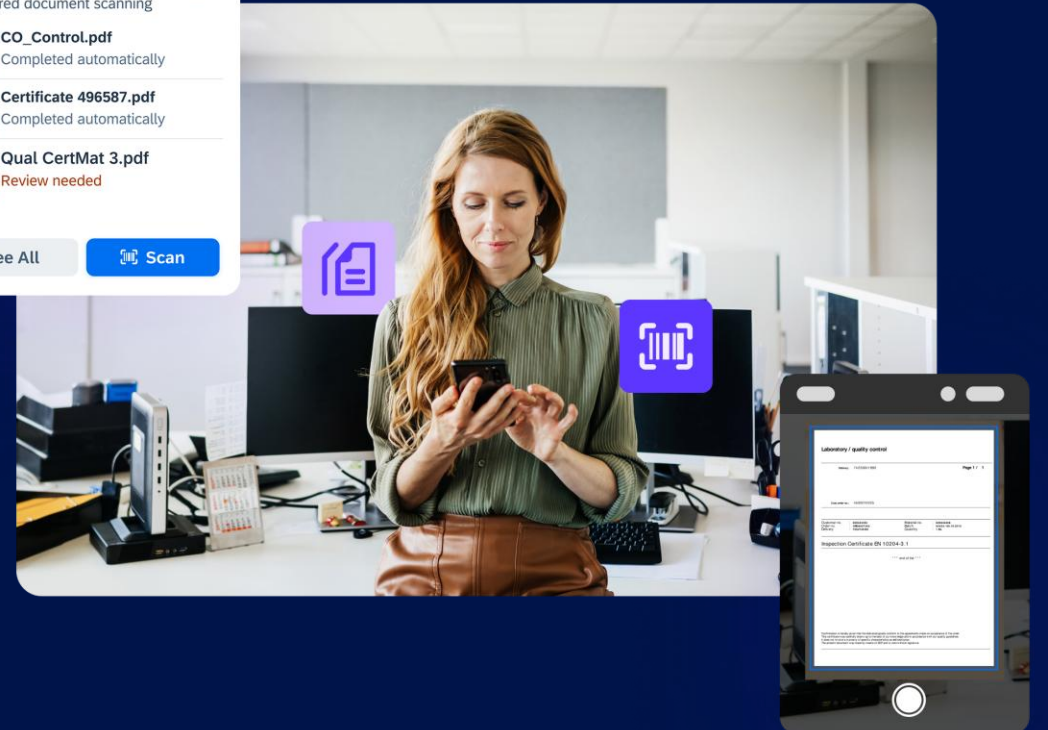
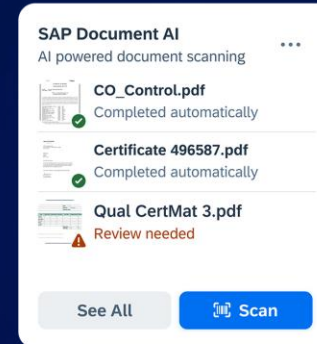
Transform your business with AI-powered document processing ✨

Process any structured and unstructured business document

smarter

automated

more efficient



Save up to 70% of time to process business documents

SAP Document AI

Fast, concise, and automatic
information extraction from wide
variety of business documents

180k +

document pages annotated
to train the models

0.5B +

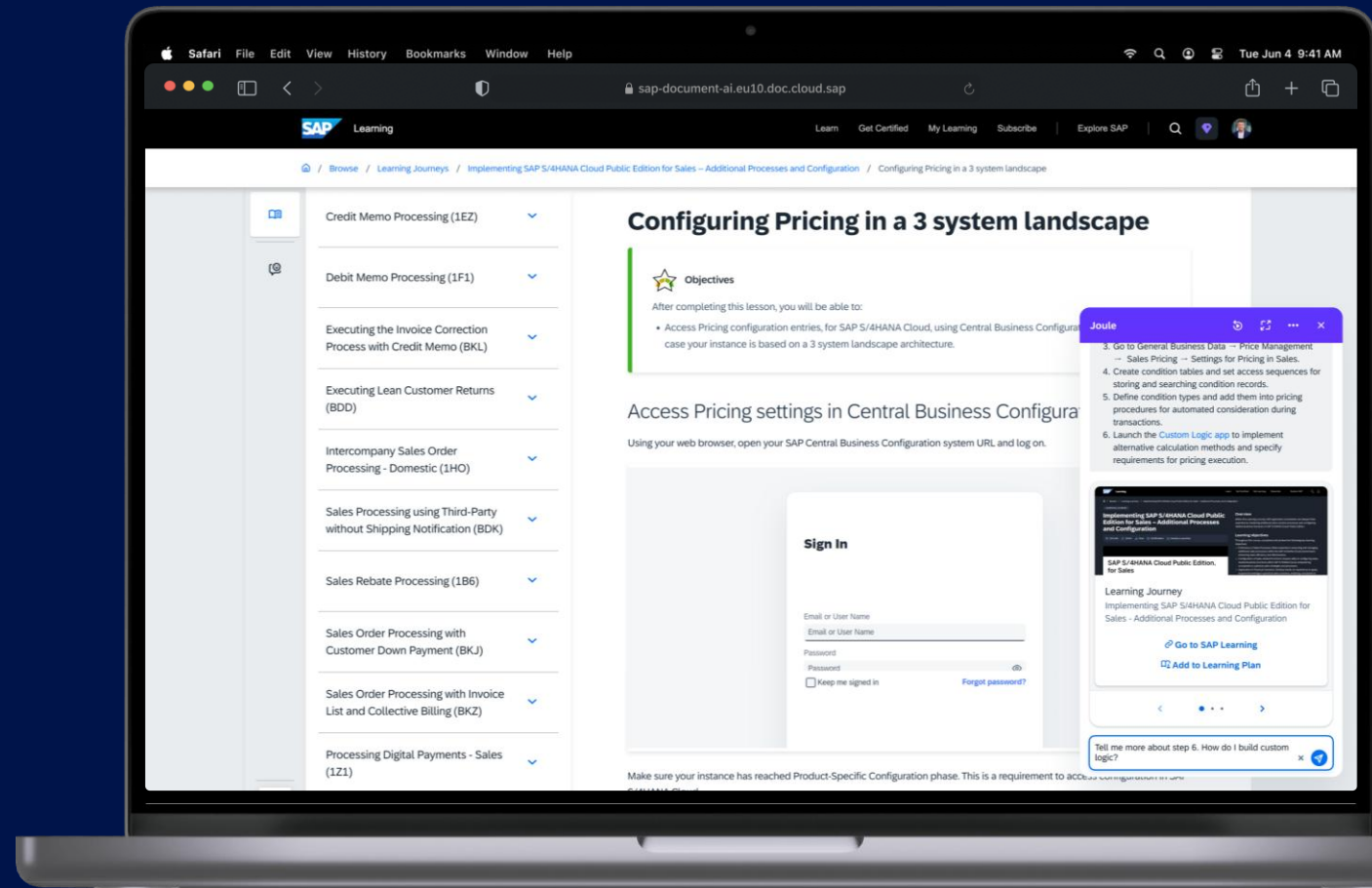
unstructured documents
processed each year with
SAP Document AI

105M +

characters annotated
to train the models

28

countries covered
in the data set





Documents (1)

[+](#) [Delete](#) [↓](#) [↕](#) [⌵](#) [↑](#)

☐	Document Name	Upload Date	Status	
☐	DeliveryNote.jpg Custom	May 19, 2025	DONE	>



AI-assisted sales order creation

up to **25%**
reducing cost
and time

Create Sales Orders - Automatic Extraction

100000115

[Edit](#)
[Delete](#)
[Create Sales Order](#)
[Simulate Creation](#)
[View File](#)
[Log](#)

SEP_PurchaseOrder_3141592.PDF

Company Code: Company Code 1710 (1710)

Source File: SEP_PurchaseOrder_3141592.PDF

Sales Order: --

Last Changed By: Brenda Brown

Changed On/At: 09.09.2025, 11:12:46

Created By: Brenda Brown

Created On/At: 09.09.2025, 11:05:18

Last Simulated On: --

Processing Status
Order Simulation
Extracted Net Value
Simulated Net Value

Data Complete
-
435,00 EUR

Header Data

Item Data

Basic Sales Data

Sales Organization:
Dom. Sales Org US (1710)

Distribution Channel:
Direct Sales (LO)

Division:
Product Division 00 (00)

Sales Order Type:
Standard Order (OR)

Requested Delivery Date:
23.09.2025

Customer Reference:
3141592

Customer Reference Date:
09.09.2025

Sold-to Party Data

Sold-to Party:
Domestic US Customer Direct Debit
(171000100)

Street:
Caminito Pasadero

House Number:
17

Postal Code:
92128-1096

City:
San Diego

Country/Region:
US

Ship-to Party Data

Ship-to Party:
Domestic US Customer Direct Debit
(171000100)

Street:
Caminito Pasadero

House Number:
17

Postal Code:
92128-1096

City:
San Diego

Country/Region:
US

Extracted Purchasing Data

Purchase Order Number:
3141592

Purchase Order Date:
09.09.2025

Extracted Requested Delivery Date:

Extracted Sold-to Party Address ...

Sold-to Party Name:
Domestic US

Sold-to Party Name 2:
--

Street:
Caminito Pasadero

Extracted Sold-to Party Addition...

Tax Registration Number:
MM000000008601

Additional Tax Number:
--

Bank Account:
--

All
Search

Page 1 / 2

Purchase order

Purchase Order No.
3141592

Invoice Address
Domestic US Customer Direct Debit
17 Caminito Pasadero, San Diego, USA, 92128-1096
Date of Order
09-SEP-2025

Buyer
Domestic US Customer Direct Debit
USA
info@17100100.com

Delivery Address
Domestic US Customer Direct Debit
17 Caminito Pasadero, San Diego, USA, 92128-1096

Supplier No.
19650

Payment Terms
14 Days 2%, 30 Net

Incoterms
Delivered duty paid

Supplier Contact/Telephone

Requestor/Deliver To
Domestic US Customer Direct Debit

Revision
1

Date of Revision
09-SEP-2025

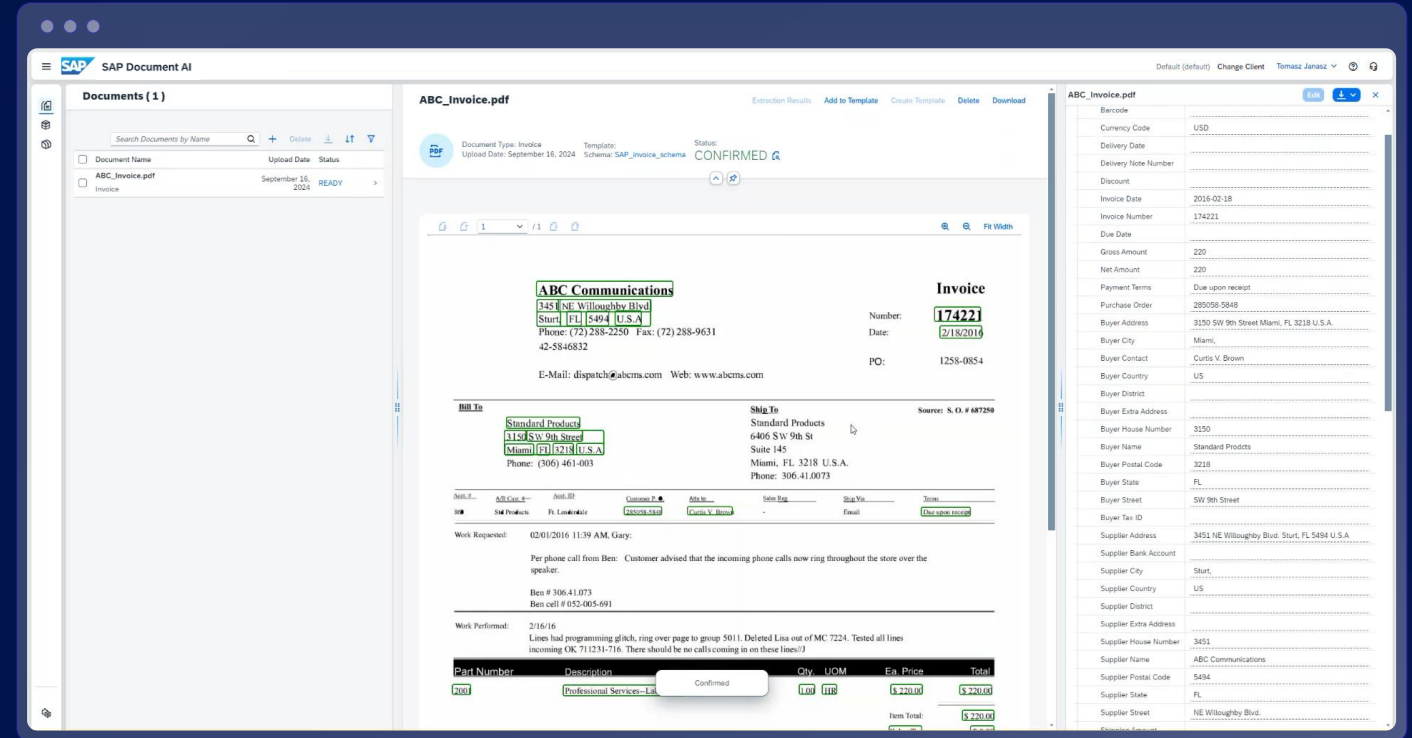
Line	Part Number/Description	Delivery Date	Quantity	Unit	Unit Price	Extended Price
1	TG-D010 Trading Good 0011.PD/Regular Proc. This PO Line references Contract Number: 3233466	22-SEP-2025	150	PC	2,50	375,00

Improvement Framework

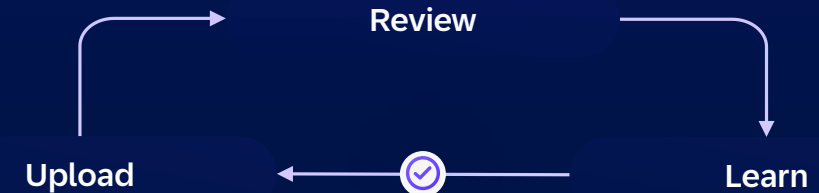
Instant Learning

Drive progressive refinement and reliability by enabling your system to continuously learn from your own data and user corrections.

Adapt to new formats, feedback loops and instant learning mechanisms to enhance data extraction accuracy and boost the overall value of your AI solution.



[Learn more](#)



Pre-configured Content

Pre-configured content for Business Documents

Streamline business processes with high accuracy and ensure reliable handling of critical business content with preconfigured content for essential business documents such as invoices, purchase orders, and delivery notes.

[Learn more](#)



Available

Supplier Invoice

Purchase Order

Delivery Note

Payment Advice

Business Card

National ID

Quality Certificate

Bill of Exchange

Business Partner
Certificate

2025

Quality Certificate

Logistics Documents

Inhouse Repair Order

Social Security Card

Birth Certificate

... and more

File handling & OCR

Advanced OCR with broad language support

Enhance document processing with advanced optical character recognition (OCR) capabilities such as robust handwriting and barcode detection and support for more than 34 file formats.

Extract text and information from documents in more than 100 languages to effortlessly scale your global operations.

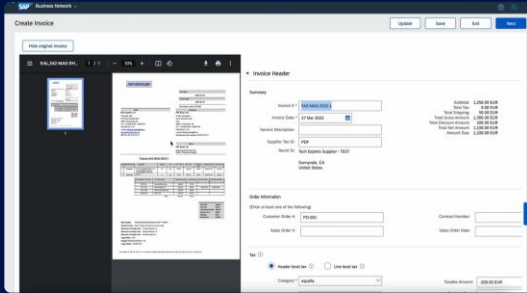
[Learn more](#)



Where it matters most

Natively embedded into your SAP applications

SAP Document AI base edition



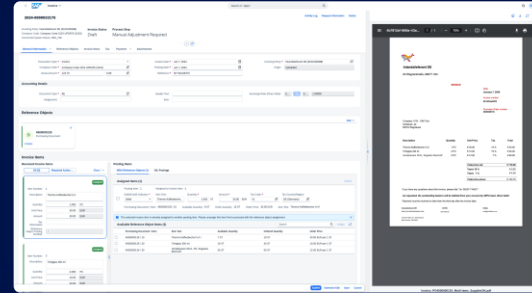
SAP Business Network Intelligent Invoice Conversion

Enhance efficiency with automated invoice upload and conversion

Improve accuracy by reducing manual entry errors

Speed up payments by minimizing rejected invoices by customers

[Learn more](#)

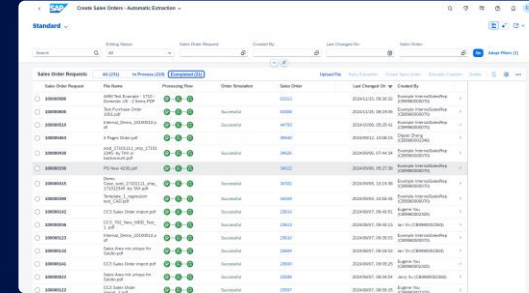


SAP Ariba Central Invoice Management

Centralized invoice processing via Business Network

Available on BTP for SAP S/4HANA Cloud Public Edition

[Learn more](#)



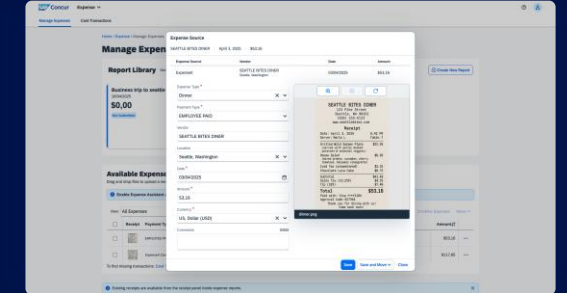
SAP S/4HANA Sales Order Automation with AI

Faster order completion to avoid sales order delivery delays

Free up time by reducing redundant tasks

Lower risk of human errors

[Learn more](#)



SAP Concur Expense

Capture receipt images in the Expenselt app

Extract information and analyze images with on-device ML models

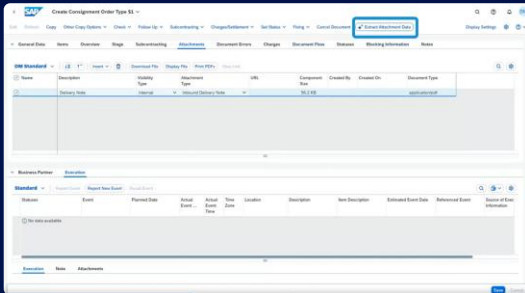
Boost employee productivity and audit efficiency

[Learn more](#)

Where it matters most

Natively embedded into your SAP applications

SAP Document AI premium edition



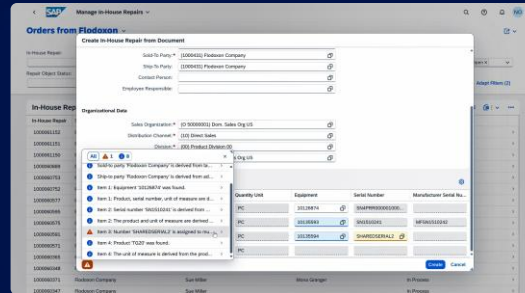
Intelligent Goods Receipt in Transportation Management

Significantly reduce manual checks at the gate

Expedite the process of unloading freight

Significant reduction in the hours spent on manual checks and waiting times for trucks

[Learn more](#)



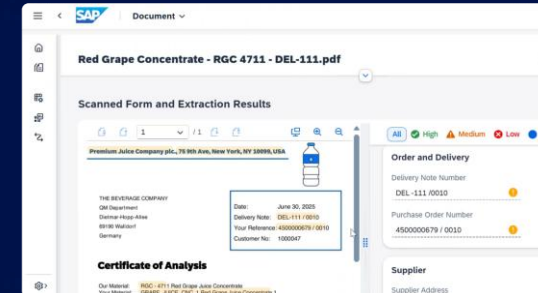
In-house service initiation for Service & Asset Management

Automate the process of extracting form data and creating repair objects

Reduce human errors, improve overall process efficiency

Identify existing equipment automatically and remove repetitive tasks

[Learn more](#)



Document processing for incoming supplier certificates

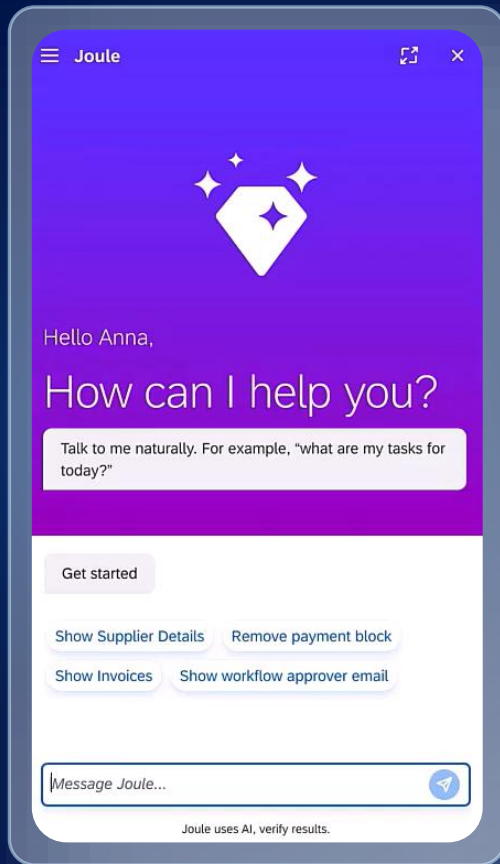
Capture receipt images in the Expenselt app

Extract information and analyze images with on-device ML models

Boost employee productivity and audit efficiency

[Learn more](#)

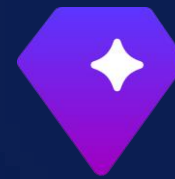
Introducing
Joule Studio



SAP Joule for **Business**

1,800+

of the most frequently
used transactions



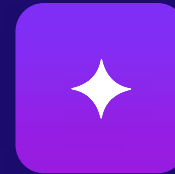
Joule Studio

in SAP Build



Joule Skills

Extend Joule with custom
Joule skills



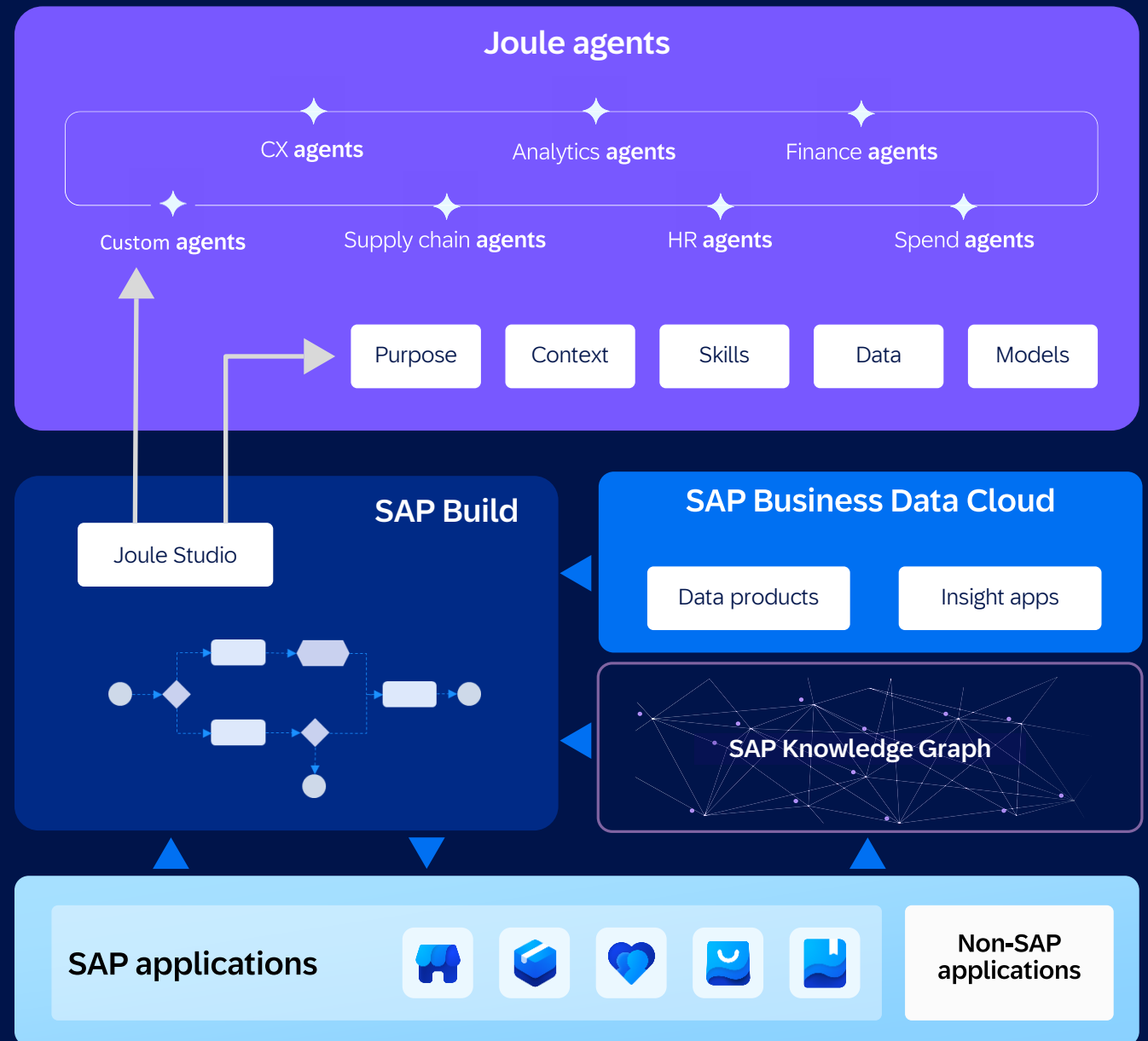
Custom AI agents

Build your own AI agents

Joule Studio in SAP Build

Build Joule skills and custom AI agents for specific business needs with drag and drop simplicity.

These capabilities extend Joule copilot and enhance efficiency.



What are Joule Skills?



Attributes

Orchestrated through Joule
Intent & context-based triggers
Pre-defined execution flow

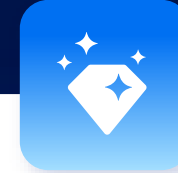
APIs

Automations

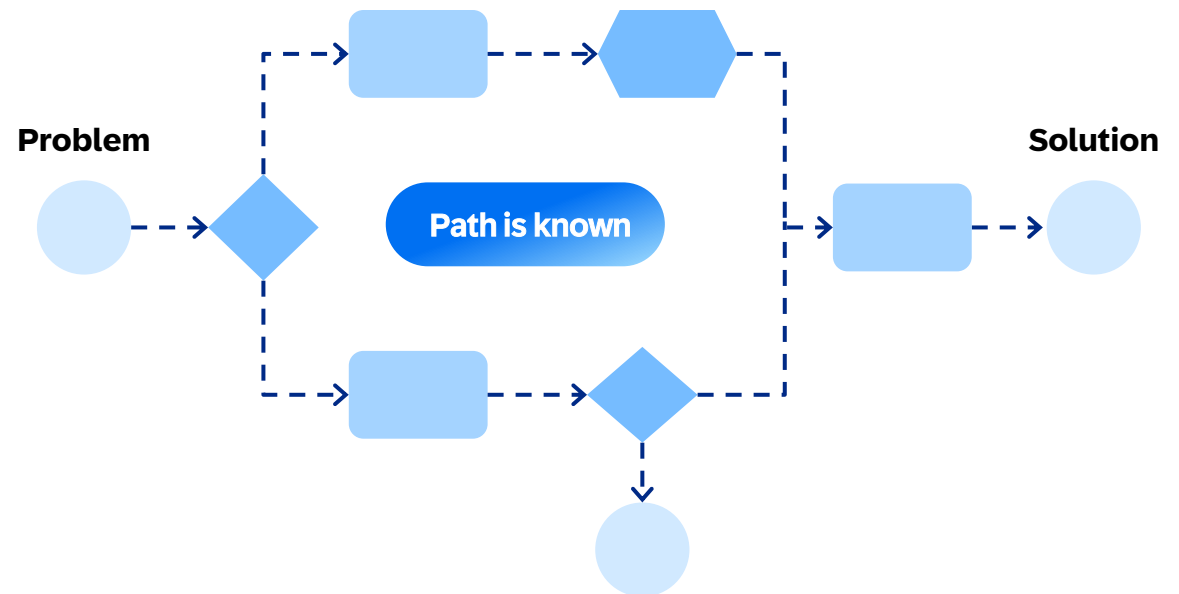


Examples

Retrieve supply chain risks
Get weather conditions
Raise transport request for a shipment
Create a service now ticket



**Joule Skills execute
rule-based, repetitive tasks**



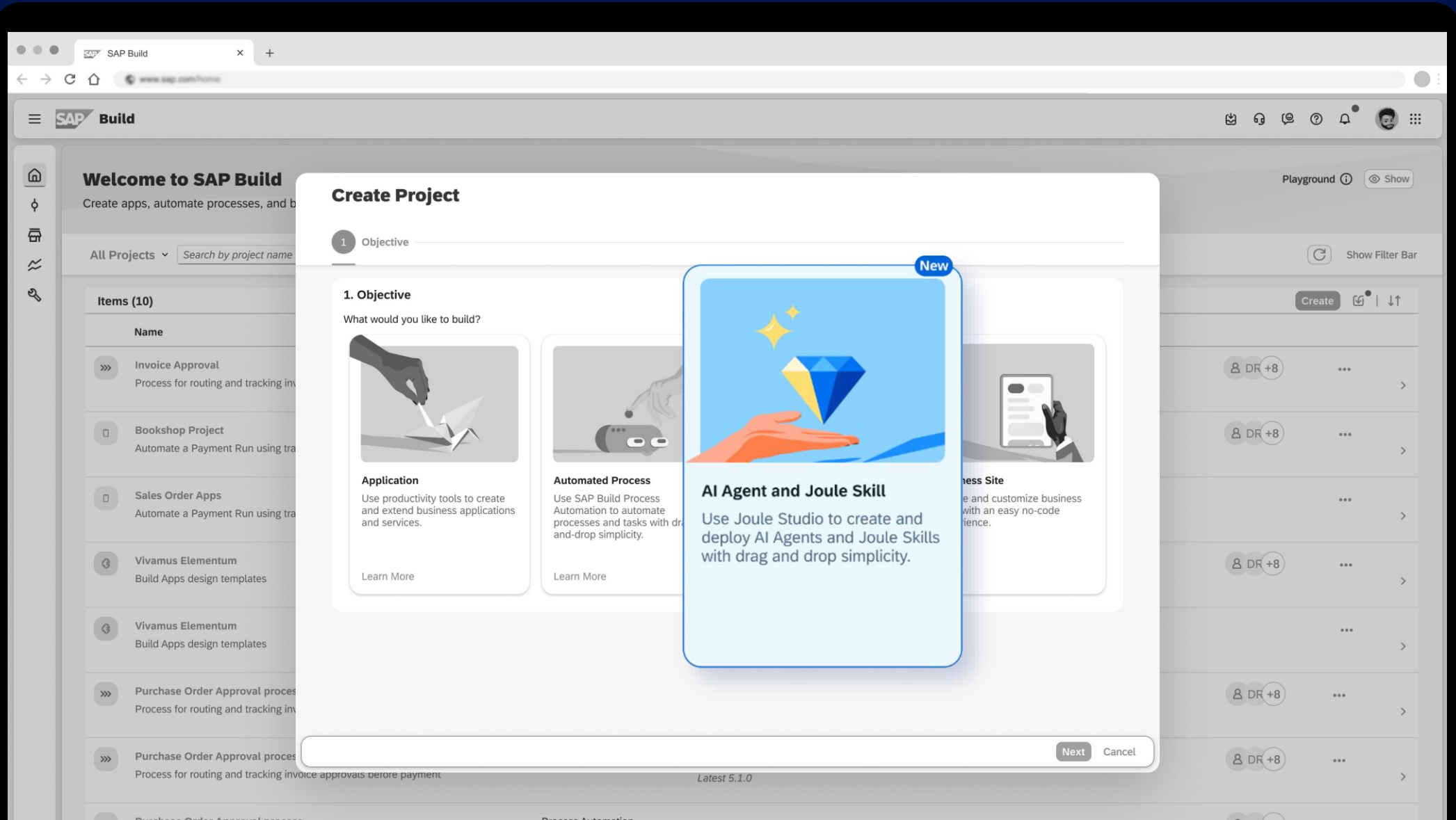
Start skill and AI agent design in Joule Studio

The screenshot displays the SAP Build web interface with a 'Create Project' modal open. The modal is titled 'Create Project' and has a progress indicator for '1. Objective'. Below the title, it asks 'What would you like to build?' and presents four options, each with an illustration and a brief description:

- Application**: Use productivity tools to create and extend business applications and services. (Illustration: A hand placing a paper airplane on a surface.)
- Automated Process**: Use SAP Build Process Automation to automate processes and tasks with drag-and-drop simplicity. (Illustration: A hand dropping a coin into a slot on a blue device.)
- AI Agent and Joule Skill** (marked as 'New'): Use Joule Studio to create and deploy AI Agents and Joule Skills with drag and drop simplicity. (Illustration: A hand holding a glowing blue diamond.)
- Business Site**: Create and customize business sites with an easy no-code experience. (Illustration: A hand holding a tablet displaying a business site.)

Each option has a 'Learn More' link at the bottom. The modal also features a search bar at the top, a 'Playground' link, a 'Show Filter Bar' button, and a 'Create' button. The background shows the SAP Build dashboard with a list of projects and a sidebar with navigation icons.

Start skill and AI agent design in Joule Studio



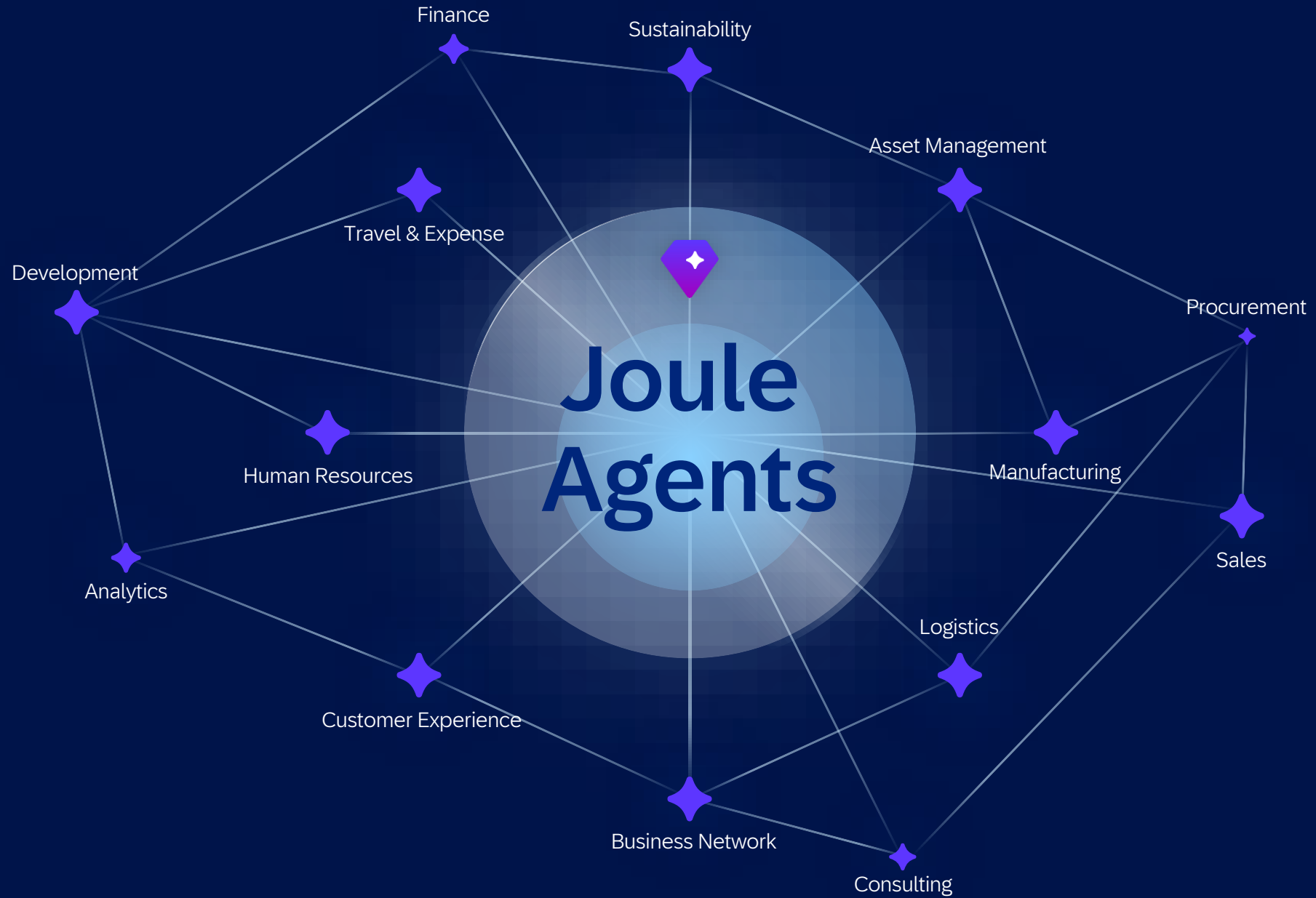
Start skill and AI agent design in Joule Studio

The screenshot displays the SAP S/4HANA Cloud user interface. At the top, the SAP logo is on the left, and navigation links for 'Home', 'My Home', 'Master Data - Business Partner', and 'Administration' are in the center. On the right, there are icons for search, location, help, notifications, and a user profile labeled 'EA'.

The main content area is divided into several sections:

- To-Dos:** A section with tabs for 'Tasks (43)' and 'Situations (0)'. It contains four task cards:
 - Approve Purchase Requisition 10006194 00010** (Medium Priority) by Yong Zhao. Item Description: Handelsware 13, Bestellpunkt, Strecke (TG13). Net Value: 13.000000. Created On: 08/11/2023.
 - Execute Task: Replace Filling sensor on tank / ID: 1-1** (Very High Priority) by Example Industrial Hygienist. Created On: 22/09/2023.
 - Approve Purchase Requisition 10001193 00010** (Medium Priority) by Example Purchaser. Created On: 23/02/2021.
 - Approve Purchase Requisition 10001192 00010** (Medium Priority) by Example Purchaser. Created On: 23/02/2021.
- News:** A section with a header image and a card titled 'Sourcing and Procurement' with the text 'Discover the new features and changes in this release' and 'SAP S/4HANA Cloud 2402'.
- Pages:** A grid of six colored buttons for navigation:
 - Overview (Master Data - Business Partner)
 - Workforce Master Data Administration
 - Identity and Access Management Administration
 - Communication Management Administration
 - Extensibility Administration
 - Security Administration
- Apps:** A section with tabs for 'Favorites', 'Most Used', and 'Recently Used'. It shows a row of app icons: Custom Fields, Custom CDS Views, Custom Tiles, Custom Catalog Extensions, and Custom Communication Scenarios.

Overlaid on the right side of the screen is the **Joule** AI assistant interface. It features a purple header with the Joule logo (a white diamond with three stars) and the text 'Hello, How can I help you?'. Below this is a white input area with a text box containing 'type or say something', a blue send button, and a microphone icon.





Accounts Receivables Manager

Receivables Assistant

Collections Agent

Dispute Resolution Agent

Working Capital Agent*

Invoicing Processing Agent*

Payment Scheduling Agent*

Fraud Detection Agent*

Assistants

Agents

*Coming in 2026



Accounts Receivables Manager

Receivables Assistant

Collections Agent

Dispute Resolution Agent

Working Capital Agent*

Invoicing Processing Agent*

Payment Scheduling Agent*

Fraud Detection Agent*

Custom Agent

Custom Agent

Assistants

Agents

Joule Studio

*Coming in 2026

What are AI agents?



Attributes

Planning

Reasoning

Autonomy

Agent-agent communication

LLMs

Tools

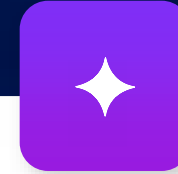


Examples

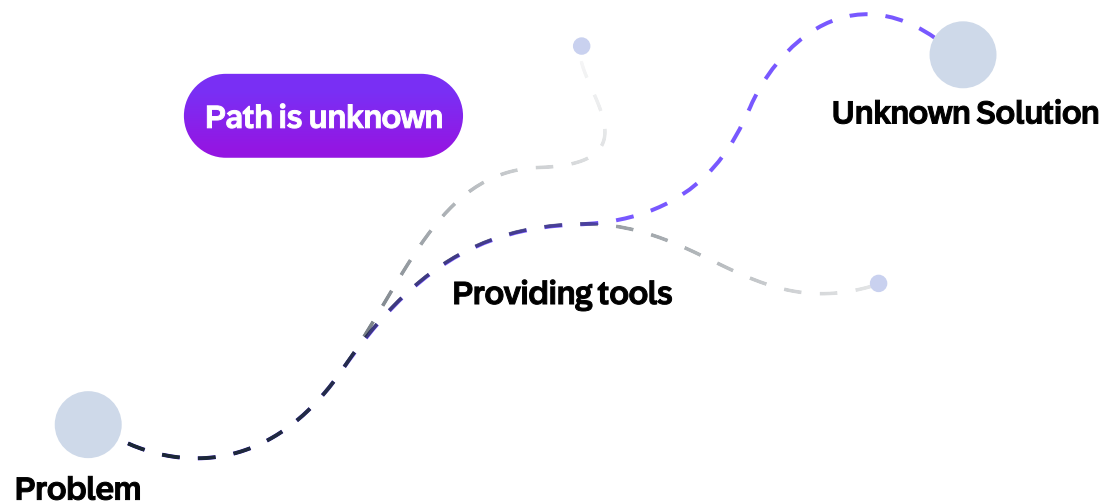
Optimize shipment logistics

Manage talent acquisition

Negotiate procurement deals



AI agents can execute complex business scenarios by iteratively reasoning and interacting with their environment to achieve a goal.



Joule Studio

In SAP Build

The screenshot displays the SAP Build web application interface. At the top, there's a navigation bar with the SAP Build logo and various icons. Below this, a welcome message reads "Welcome to SAP Build" with the subtitle "Create apps, automate processes, and build business sites using productivity or no-code tools." A "Playground" button is visible on the right. The main section is titled "All Projects" and includes a search bar. Below the search bar, a table lists 10 items. The table has columns for Name, Type, Versions, Members, and Options. The items listed are:

Name	Type	Versions	Members	Options
Invoice Approval Process for routing and tracking invoice approvals before payment	Process Automation	5 available Latest 5.1.0	DR +8	...
Bookshop Project Automate a Payment Run using transaction F110	Build Code Full-Stack Application		DR +8	...
Sales Order Apps Automate a Payment Run using transaction F110	Build Code Fiori Application			...
Vivamus Elementum Build Apps design templates	Build App Application Backend		DR +8	...
Vivamus Elementum Build Apps design templates	Build App Web and Mobile Application			...
Purchase Order Approval process Process for routing and tracking invoice approvals before payment	Process Automation	5 available Latest 5.1.0	DR +8	...
Purchase Order Approval process Process for routing and tracking invoice approvals before payment	Process Automation	5 available Latest 5.1.0	DR +8	...
Purchase Order Approval process Process for routing and tracking invoice approvals before payment	Process Automation	5 available	DR +8	...

Joule Studio

The screenshot displays the SAP Build web application interface. At the top, a browser window shows the URL `www.sap.com/home`. The SAP Build header includes a menu icon, the SAP logo, and a 'Build' label. On the right, there are icons for various functions and a user profile. The main content area features a 'Welcome to SAP Build' banner with the text 'Create apps, automate processes, and build business sites using productivity or no-code tools.' Below this, a 'All Projects' section includes a search bar and a 'Show Filter Bar' button. A table titled 'Items (10)' lists various projects, each with a 'Name', 'Type', 'Versions', 'Members', and 'Options' column. The table contains 10 rows of project data, including 'Invoice Approval', 'Bookshop Project', 'Sales Order Apps', 'Vivamus Elementum', and 'Purchase Order Approval process'. Each row includes a 'Create' button and a 'Show Filter Bar' button. The interface is designed with a clean, modern aesthetic, using a light blue and white color scheme.

Welcome to SAP Build
Create apps, automate processes, and build business sites using productivity or no-code tools.

All Projects [Show Filter Bar](#)

Items (10) [Create](#) [Show Filter Bar](#)

Name	Type	Versions	Members	Options
Invoice Approval Process for routing and tracking invoice approvals before payment	Process Automation	5 available Latest 5.1.0	DR +8	...
Bookshop Project Automate a Payment Run using transaction F110	Build Code Full-Stack Application		DR +8	...
Sales Order Apps Automate a Payment Run using transaction F110	Build Code Fiori Application			...
Vivamus Elementum Build Apps design templates	Build App Application Backend		DR +8	...
Vivamus Elementum Build Apps design templates	Build App Web and Mobile Application			...
Purchase Order Approval process Process for routing and tracking invoice approvals before payment	Process Automation	5 available Latest 5.1.0	DR +8	...
Purchase Order Approval process Process for routing and tracking invoice approvals before payment	Process Automation	5 available Latest 5.1.0	DR +8	...
Purchase Order Approval process Process for routing and tracking invoice approvals before payment	Process Automation	5 available	DR +8	...



SAP Regional AI lead

Philip Johannesson