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Community Conversations

**AI in Action: What SAP Enterprise
Architects Need to Know**



Today's Agenda

- Welcome
- Insights from the Community
- Insights from SAP
- Community Q&A
- What's Next?

Guest Speakers:

Martin Mysyk

**SAP Senior Enterprise
Architect**

Raghu Banda

**Enterprise Architect
Advisor,
SAP**

AI in Action: What SAP Enterprise Architects Need to Know

Expert Speaker:

Raghu Banda

**Sr. Director,
Enterprise Architect
Advisor – AI Strategy**

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Built with the Community:

**Enterprise Architecture topics that
matter most**

Enterprise Architect Community

Guiding Themes for EA Community Content

ASUG



Enterprise Architecture Practice

Explore best practices for building a strong EA function—covering governance models, architecture standards, and leadership behaviors that elevate the role of the architect.



Tools for the SAP Enterprise Architect

Learn how SAP BTP, Business Data Cloud, and integration tools can enable enterprise-wide architectural success and support your transformation goals.



SAP Portfolio Awareness

Gain clarity on the broader SAP product landscape—from SAP S/4HANA and industry solutions to AI offerings—so your architecture decisions align with business outcomes.

ASUG

*AI in Action: What SAP Enterprise
Architects Need to Know*

Insights from SAP

What Enterprise Architects need to know!

AI in Action

Sep 2025 | PUBLIC

Raghu Banda, SAP

Sep 2025





Rheinwerk Publishing | SAP PRESS

Finance Logistics Programming Administration BI HANA CRM & Sales HR Subscriptions

Leverage machine learning in the new suite!

Implementing Machine Learning with SAP S/4HANA
written by Siar Sarferaz, Raghu Banda

<input checked="" type="radio"/> E-book	\$84.99	✓ Available
<input type="radio"/> Print edition	\$89.95	✗ Unavailable
<input type="radio"/> Bundle	\$99.99	✗ Unavailable

408 pages, 2020
E-book formats: EPUB, PDF, online
ISBN 978-1-4932-2012-0

[Browse the Book](#)

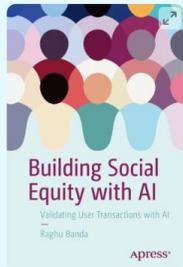


[linkedin.com/in/banda](https://www.linkedin.com/in/banda)

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Find a journal Publish with us Track your research Search

Home > Book



Building Social Equity with AI

Validating User Transactions with AI

Book | © 2024

Podcast

XTraw AI: Machine Learning and AI Applications

Venkata "Raghu Banda"

Following

Agenda

1. SAP's AI Strategy
2. End-to-End Process
3. Role of SAP Enterprise Architecture
4. EA Framework Re-imagined
5. Agent-to-Agent(A2A) Collaboration Patterns
6. Agentic AI & EA Core Architectural Shifts
7. Architectural Implications Agentic AI Adoption
8. Call to Inspiration

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60,000,000+
AI Agents



SAP's AI Strategy



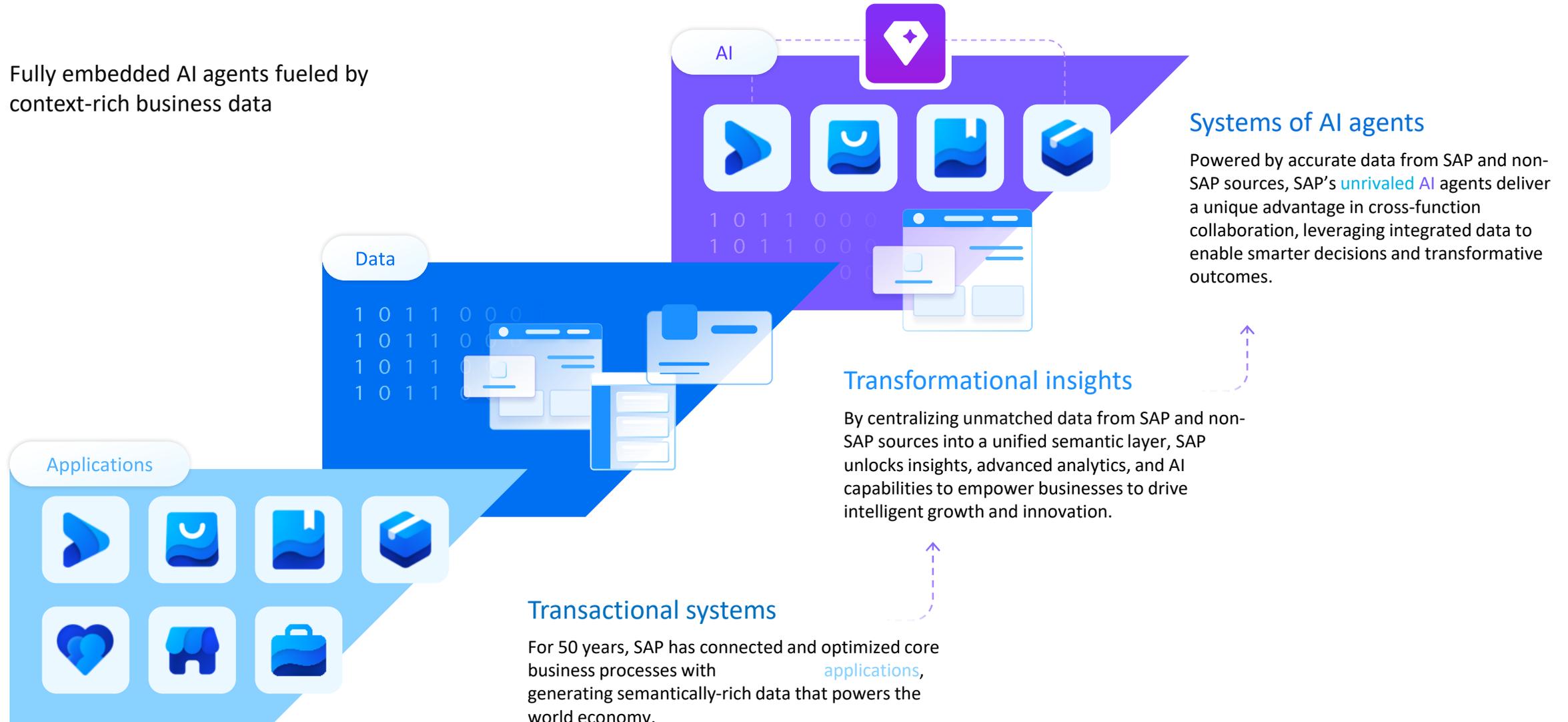
AI is the new UI

“Don’t just architect systems—architect intelligence!!!” – Raghu Banda



Redefining enterprise management

Fully embedded AI agents fueled by context-rich business data



Transactional systems

For 50 years, SAP has connected and optimized core business processes with **applications**, generating semantically-rich data that powers the world economy.

Transformational insights

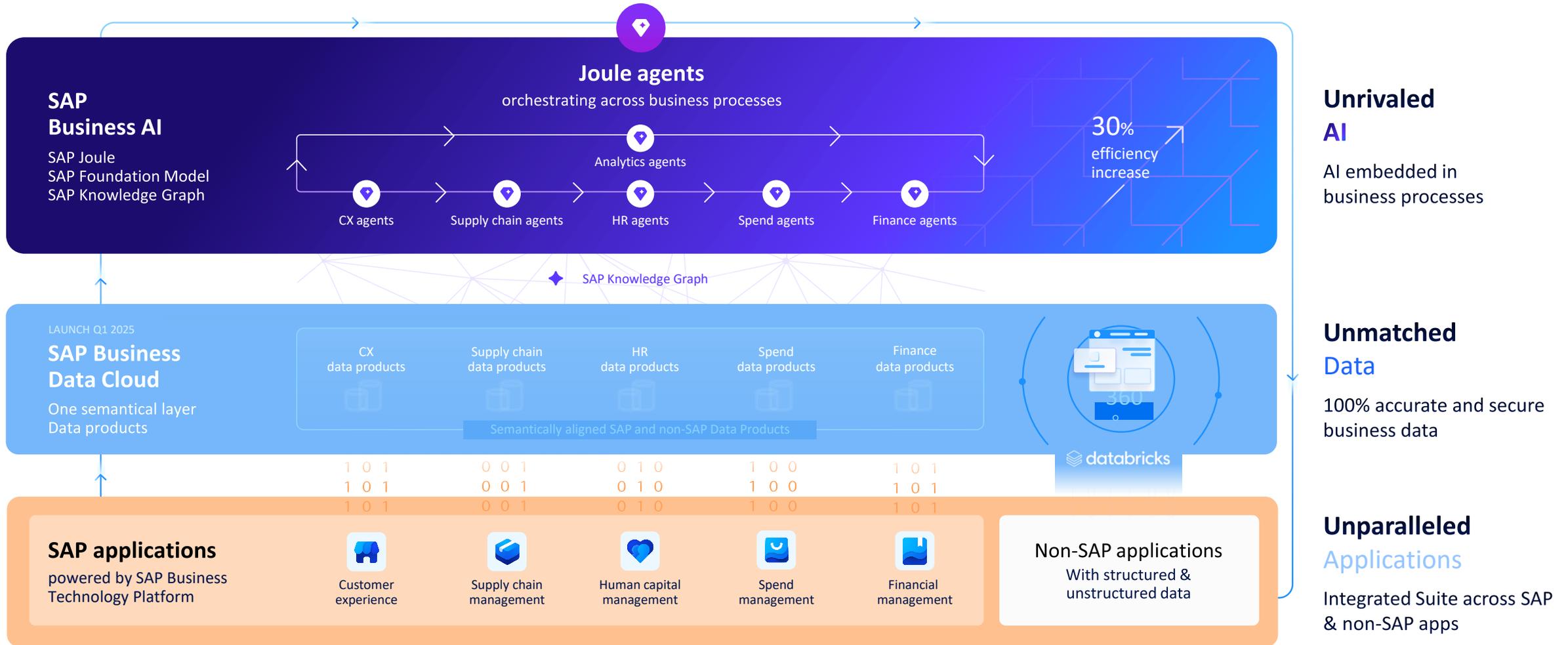
By centralizing unmatched data from SAP and non-SAP sources into a unified semantic layer, SAP unlocks insights, advanced analytics, and AI capabilities to empower businesses to drive intelligent growth and innovation.

Systems of AI agents

Powered by accurate data from SAP and non-SAP sources, SAP's **unrivaled AI** agents deliver a unique advantage in cross-function collaboration, leveraging integrated data to enable smarter decisions and transformative outcomes.

Joule Agents – a core pillar of SAP Business Suite

SAP's AI-first and Suite-first strategy empowers Joule Agents to uniquely automate end-to-end processes



AI infused in tools

Embedded



Skilled Co-Pilot

Joule



For complex workflows

Agents



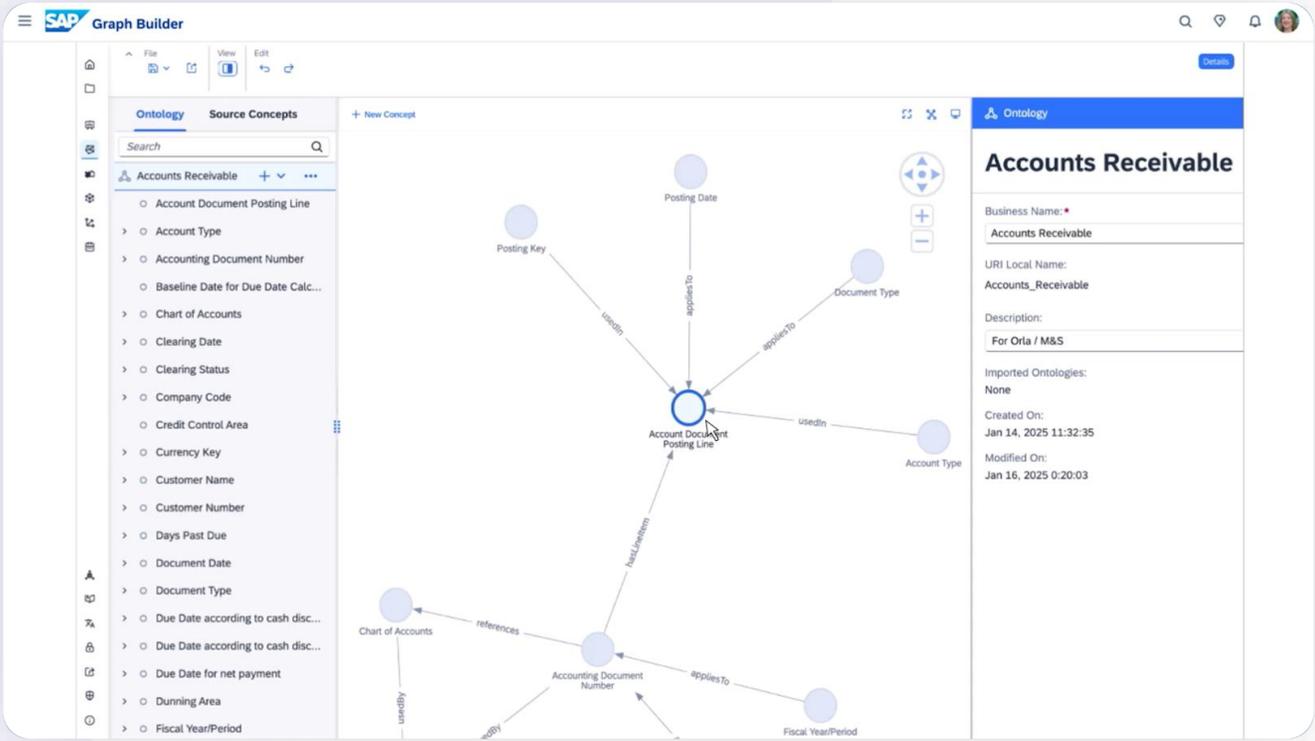
Uniquely equipped to solve bigger problems

Joule Agents are grounded by
SAP Knowledge Graph

Informs agentic reasoning
with SAP's 50+ years of business processes expertise.

Provides deep context
on relevant processes, data, and data relationships.

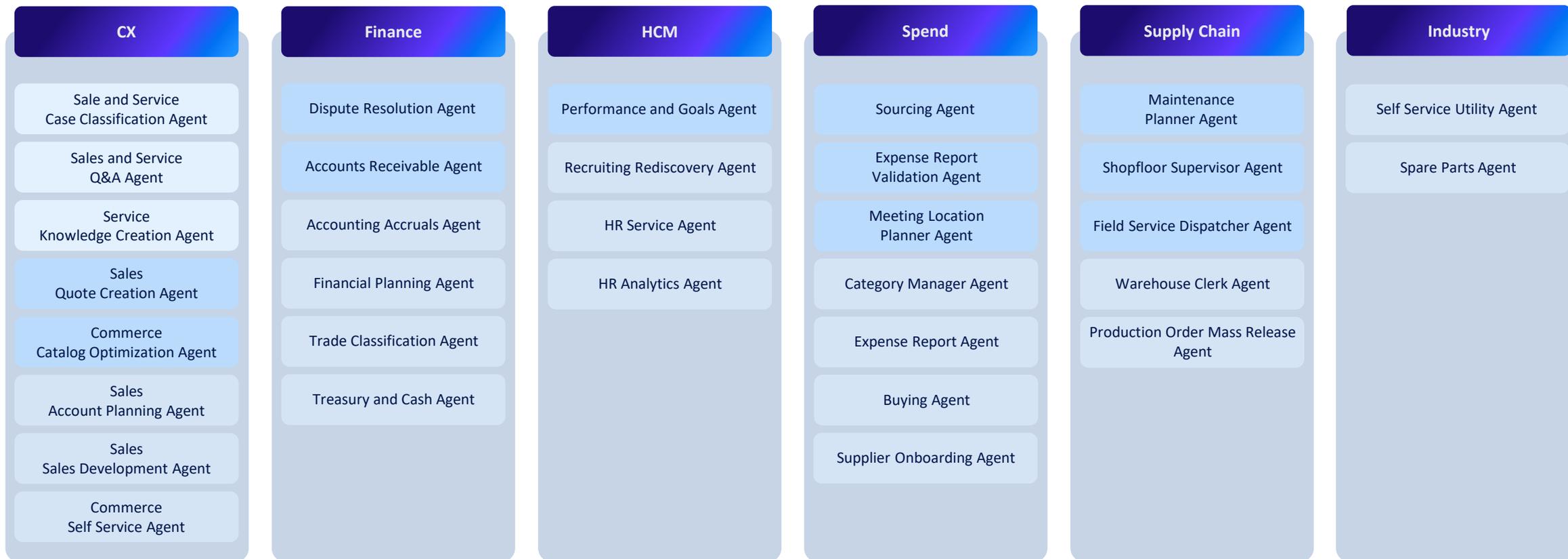
To solve bigger problems
that span business functions.



*Screens showing GA functionality (Joule Integration)

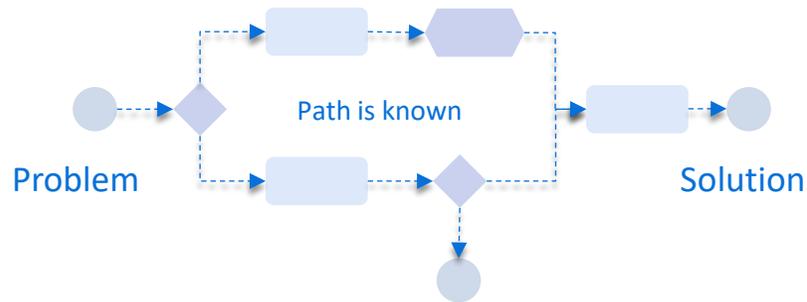
Roadmap

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

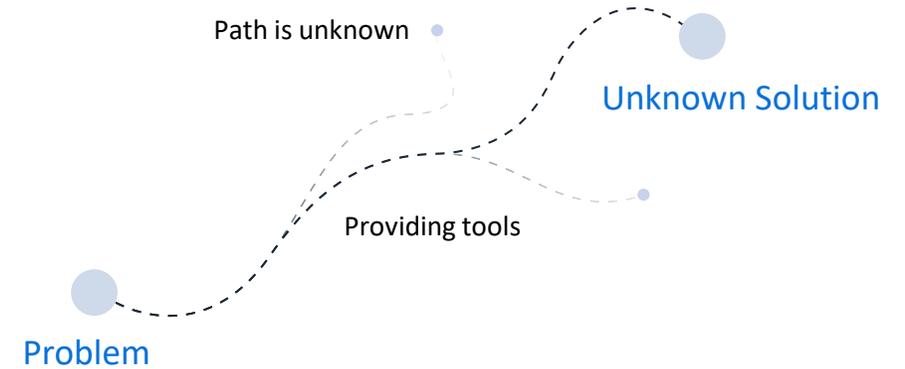


Generally Available
 Planned for H2 2025

Joule Skills



AI Agents



Tell me exactly what to do, and I'll do it.

For deterministic, rule-based atomic operations with known inputs and outputs

Exposed through Joule



Tell me the problem, and I'll figure out the best way to solve it.

For adaptive, multi-step problem solving

Exposed through Joule or other external applications

Agents can



Sense

Gather data from the environment



Think / Reason

Create an action plan autonomously and reason to decide next steps



Act

Interact with systems and make changes.

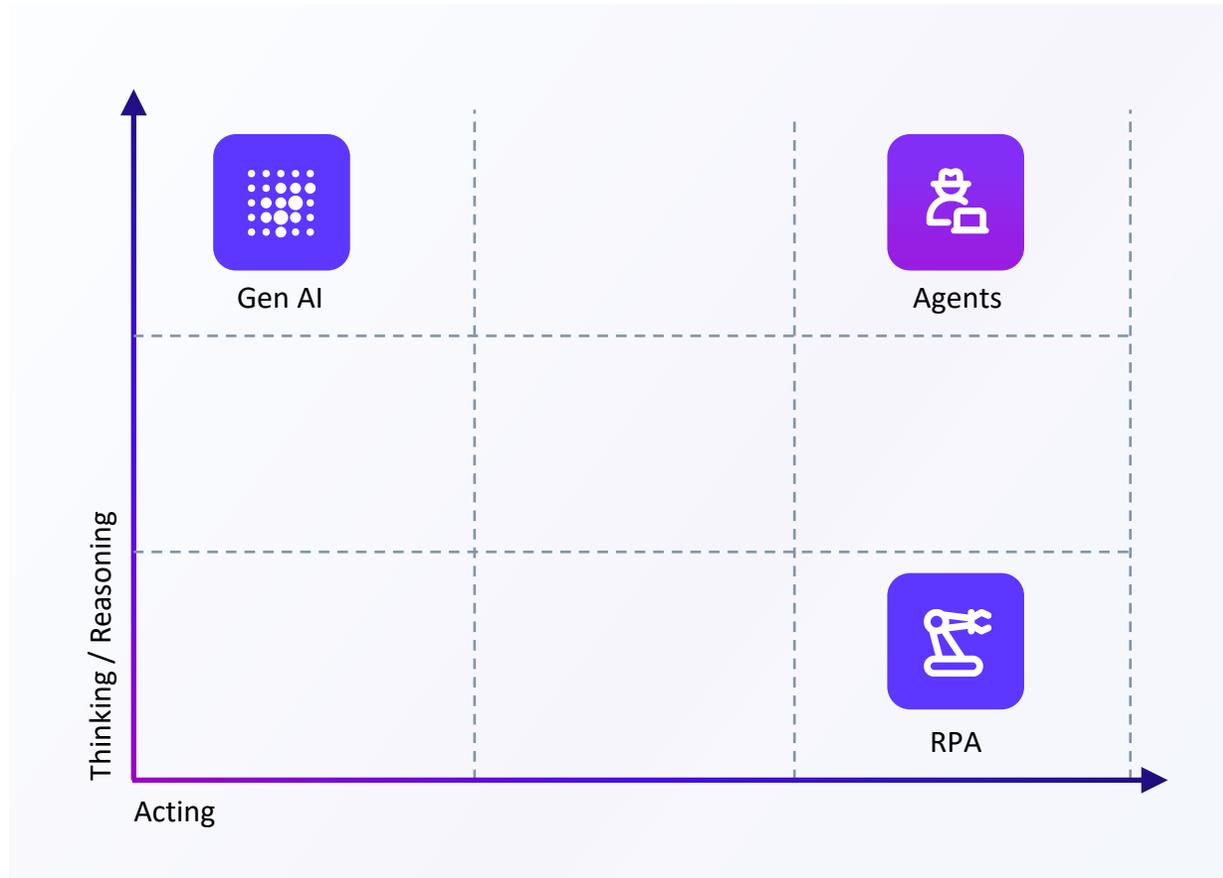


Learn

Adapt based on past experience (data).

Agents vs. other technologies

Gen AI applications can generate insights and content based on reasoning capabilities, while RPA follows fixed rules to execute predefined tasks. **AI agents combine both**: they can reason and act autonomously, adapting to context.



End-to-End process

Combining AI with business data and business processes

Achieve measurable results throughout your company



Accelerate business processes through context-aware AI



Manage risk through responsible, AI-enhanced decision making



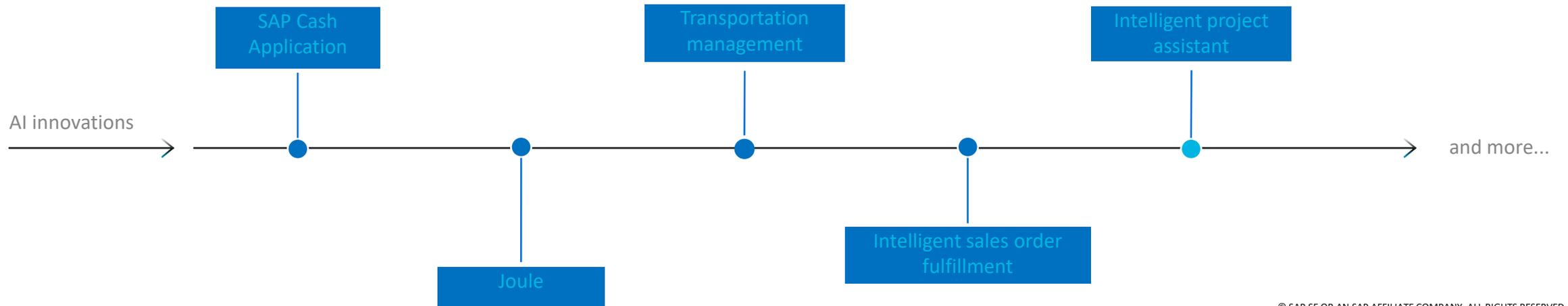
Amplify productivity through AI-augmented user experiences



With SAP's rich history and business process expertise, it is uniquely positioned to deliver AI that helps customers better leverage data to achieve measurable business outcomes.

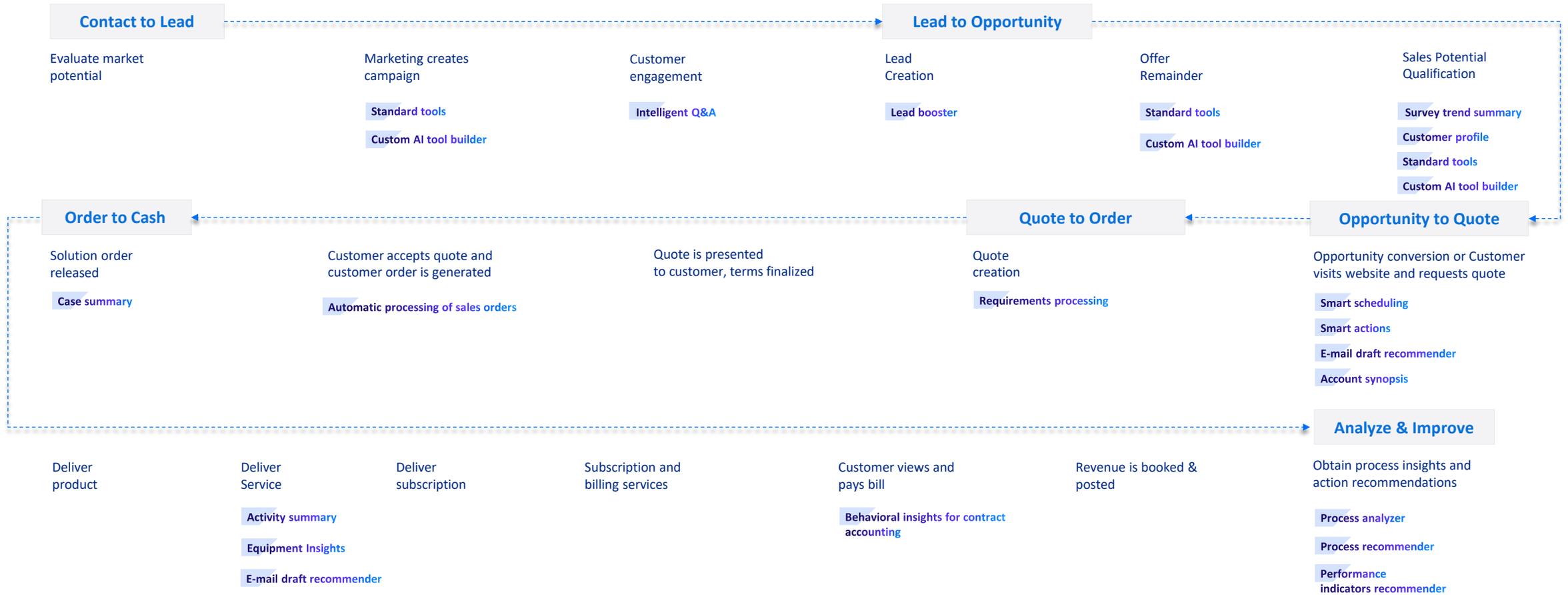


Ritu Jyoti, IDC, Group Vice President, Worldwide Artificial Intelligence and Automation Research Practice Global AI Research Lead

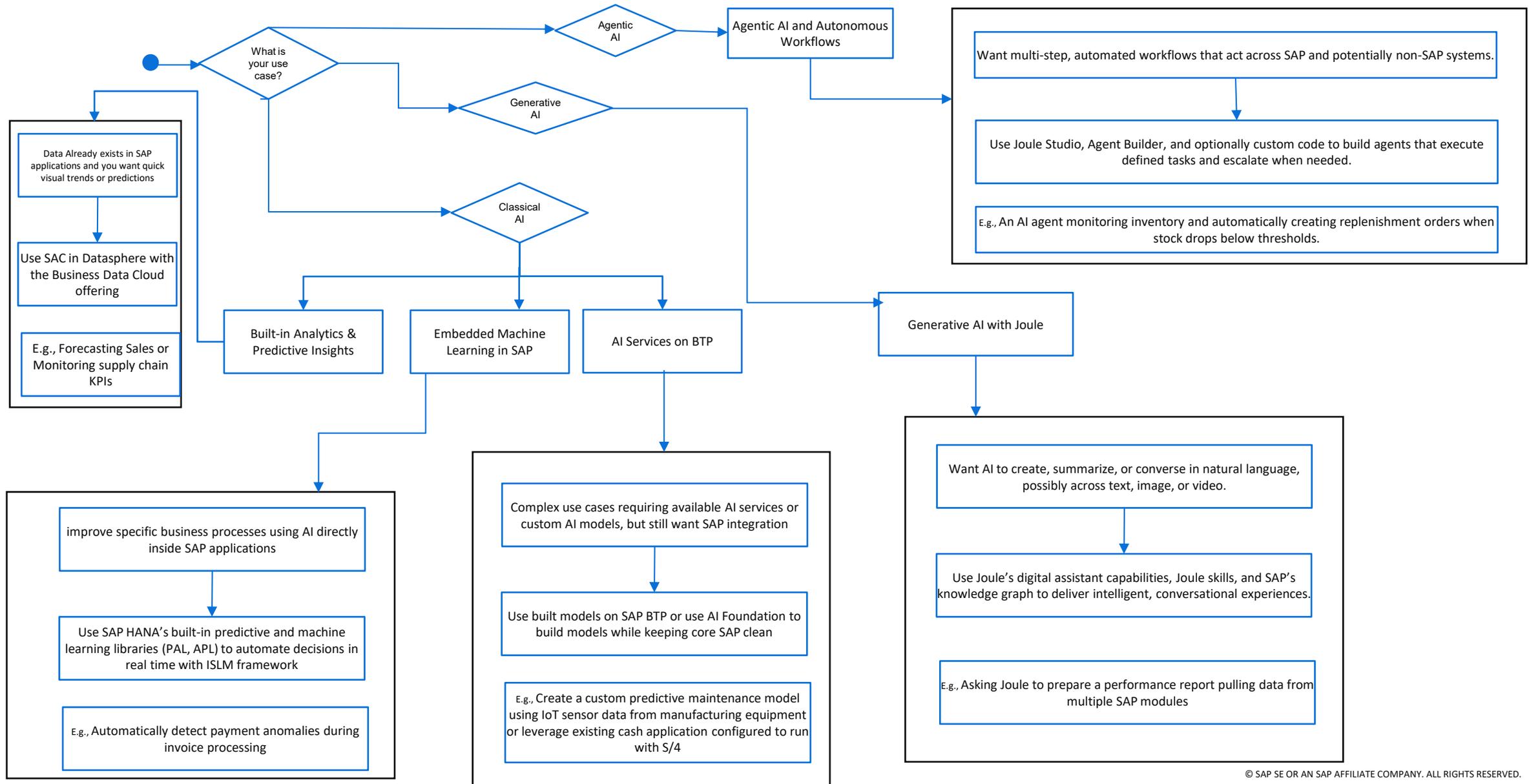


Lead to Cash

Explore how we embed AI across the process

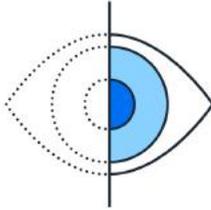


How's it Architected at SAP!



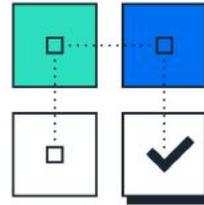
Role of SAP EA

Enterprise Architects connect strategy, readiness and governance



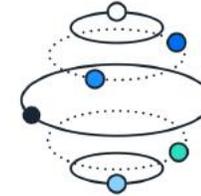
Discovery

Identify and qualify high-value agentic use cases



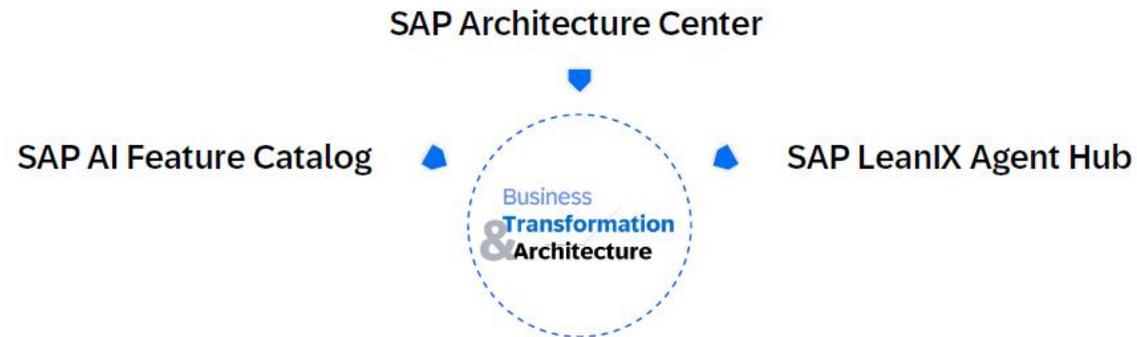
Landscape

Enable the foundation for scalable agent deployment

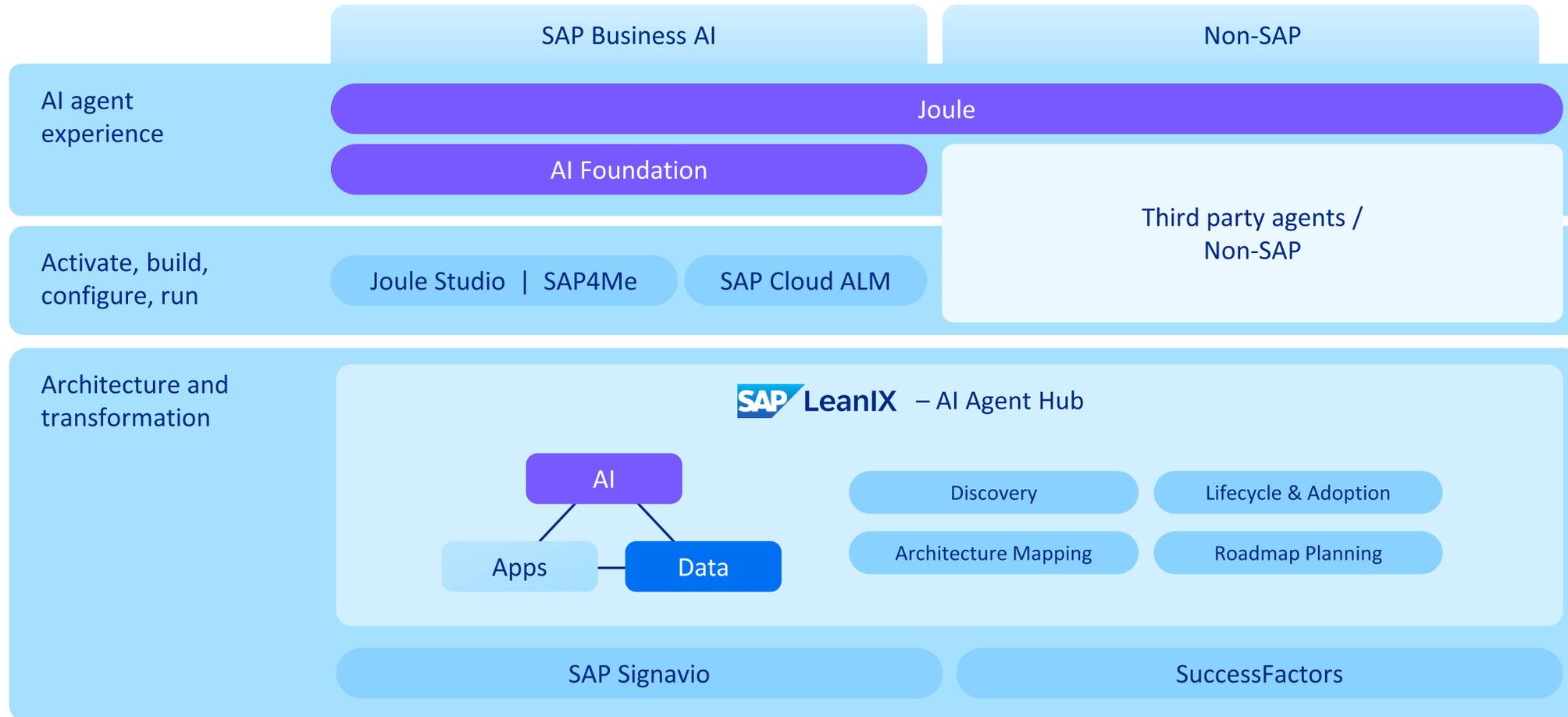


Orchestration

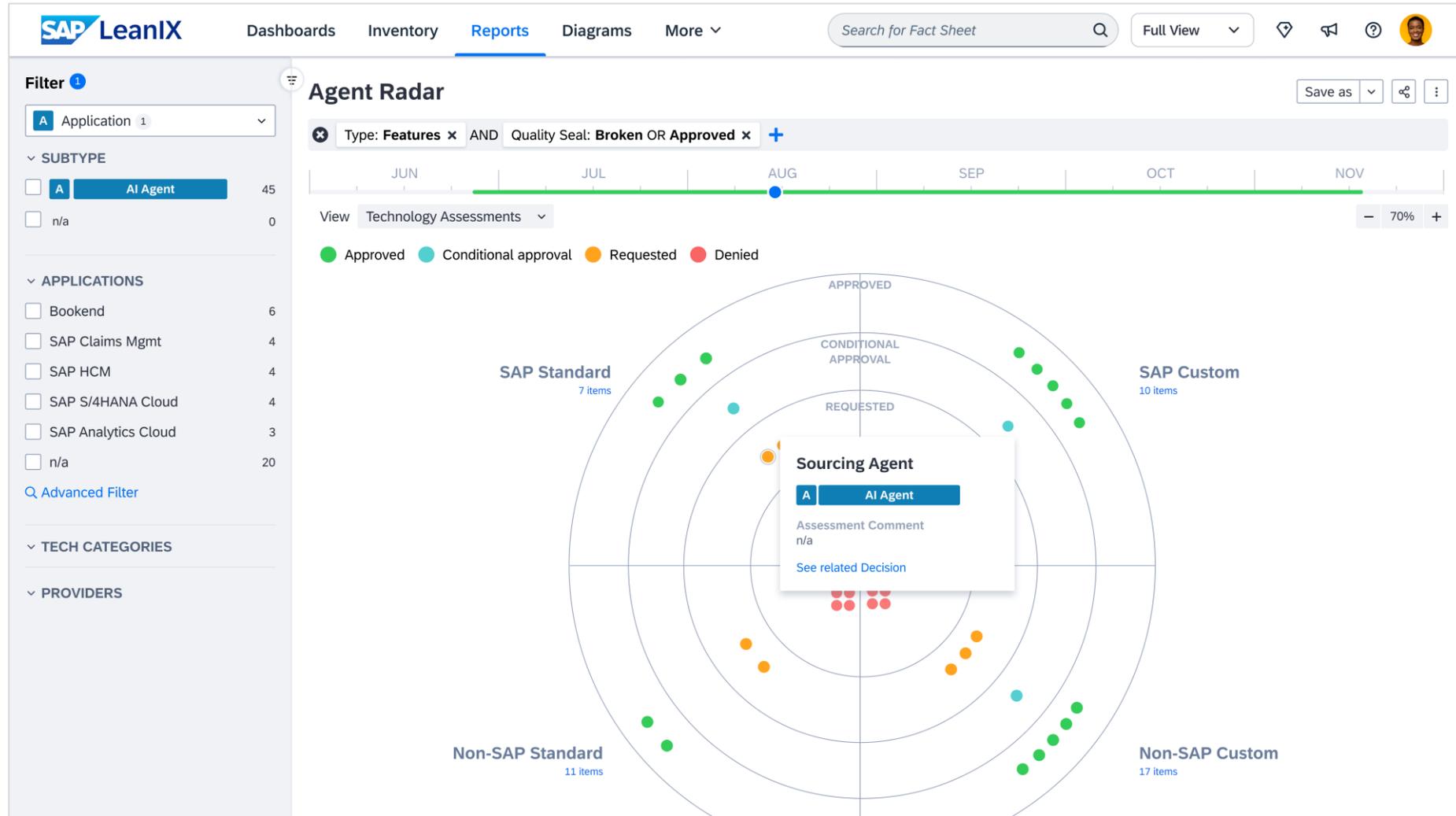
Continuously govern and evolve the agentic landscape



AI Agent Hub: Fully embedded into SAP's Business AI Strategy



Agent radar to govern agent adoption



Available Intelligent Features in SAP Business Suite

Home / SAP Business AI

SAP Business AI

Search for AI Agents and Features

Search for AI Agents and Features



227 AI Agents & Features

Sort By: A - Z



Product Categories

- All
- Cloud ERP applications
- Customer Relationship Management
- Financial Management
- Human Capital Management
- Spend Management
- Supply Chain Management
- Sustainability Management
- Technology Platform

AI Types

- + AI Feature In Package
- + AI Agent In Package
- + AI Agent Without Package
- + AI Feature Without Package

Packages

All

Products

All

Quick Filters

- + New and Featured
- + Joule



Account Matching

Account matching and forecasting of packaging demand.

AI Feature Without Package
SAP Returnable Packaging ...



Account Synopsis for SAP Sales Cloud Version 2

Facilitate targeted and relevant sales conversations.

AI Feature in Package
SAP Sales Cloud Version 2



Account Synopsis for SAP Service Cloud Version 2

Provides all the information related to an account that helps service agents.

AI Feature in Package
SAP Service Cloud Version 2



Accounts Receivable

Automate clearing and recommending proposed matches by accounts receivable.

AI Feature Without Package
SAP Cash Application



Activity Summary

Generate summaries of activities.

AI Feature Without Package
SAP Field Service Managem...



EAC

Add-in for Microsoft Excel, AI-assisted planning

AI-Assisted generation of SAP IBP formulas.

AI Feature Without Package
SAP Integrated Business Pla...



Advanced Skill Match

Find skilled employees for a resource request.

AI Feature Without Package
SAP Project and Resource ...



AI Scores

Build customer segments powered by AI.

AI Feature Without Package
SAP Emarsys Customer Eng...



AI-Assisted Authoring

Enrich enablement content automatically with AI support.

AI Feature Without Package
SAP Enable Now, cloud editi...



AI-Assisted Forecasting

Generate forecasts for scenarios or areas of your business.

AI Feature Without Package
SAP Integrated Business Pla...



AI-Assisted Forecasting



AI-Assisted Search



Beta

AI-Assisted Situation Handling



AI-Assisted Text

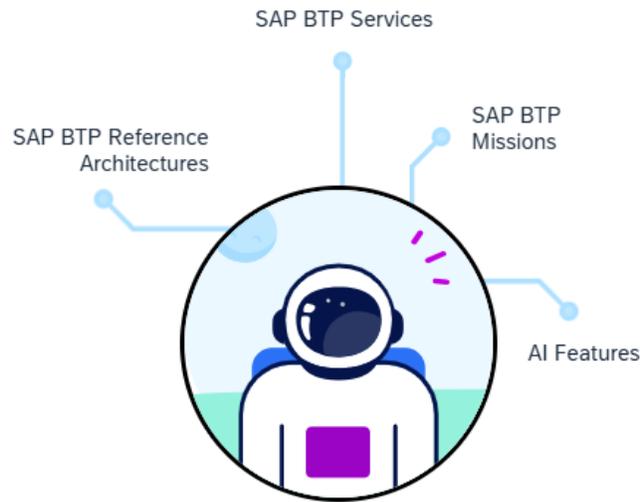


AI-Assisted Writing

Discovery Center ([link](#))

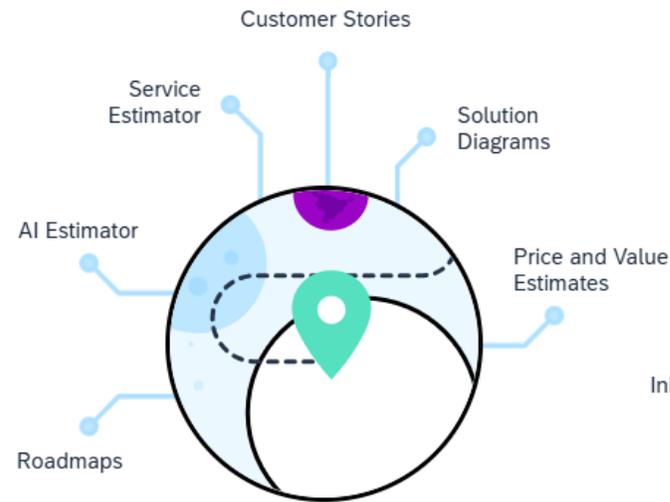
Discovery Center in a Nutshell

Explore the diverse content and unique advantages of our website at a glance.



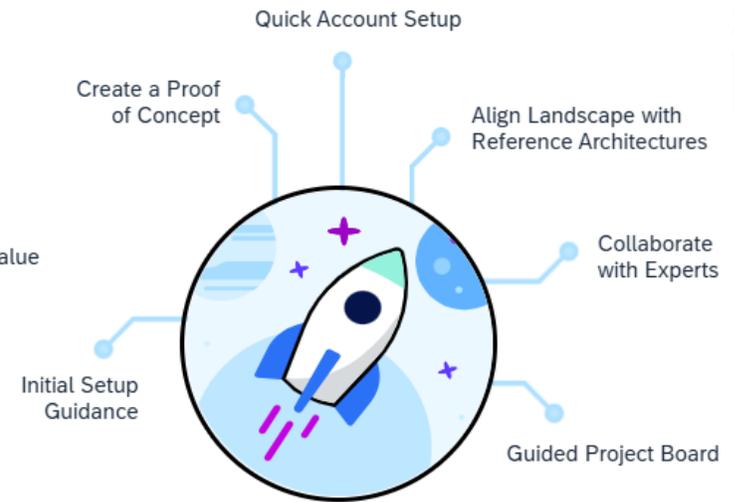
Discover

Browse our comprehensive **AI Feature**, **SAP BTP Service** and **Reference Architecture** catalogs.



Evaluate

Identify and assess the most suitable solutions for your business.



Adopt

It's time for take off! Quickly **start your innovation journey** with SAP Discovery Center today.

Landscape: Enable the foundation for scalable agent deployment via reference architectures from SAP Architecture Center

Thank you for visiting the SAP Architecture Center. Your [feedback](#) is important to us!

SAP Architecture Center

The SAP Architecture Center offers a place that provides solution reference architectures, helping businesses adopt SAP solutions to turn data into valuable business insights.

[Explore Now](#)



Explore the latest Reference Architectures

[Browse All](#)

Generative AI on SAP BTP

Integrate Generative AI with SAP BTP using SAP HANA Cloud's Vector Engine for similarity search and advanced AI patterns.

[Amazon Web Services](#) [Microsoft Azure](#) [Generative AI](#) +1

Last Update: September 1, 2025



Transitioning Architectures from SAP NetWeaver

Discover how SAP customers can transition from NetWeaver-based products approaching end-of-maintenance in 2027. Explore successor solutions, integration strategies, innovation needs, and security considerations for seamless migration and...

[Integration](#) [Transition Architectures](#)

Last Update: August 1, 2025



Establish a central entry point with SAP Build Work Zone

SAP Build Work Zone centralizes business applications, workflows, and communication for a seamless digital workplace experience.

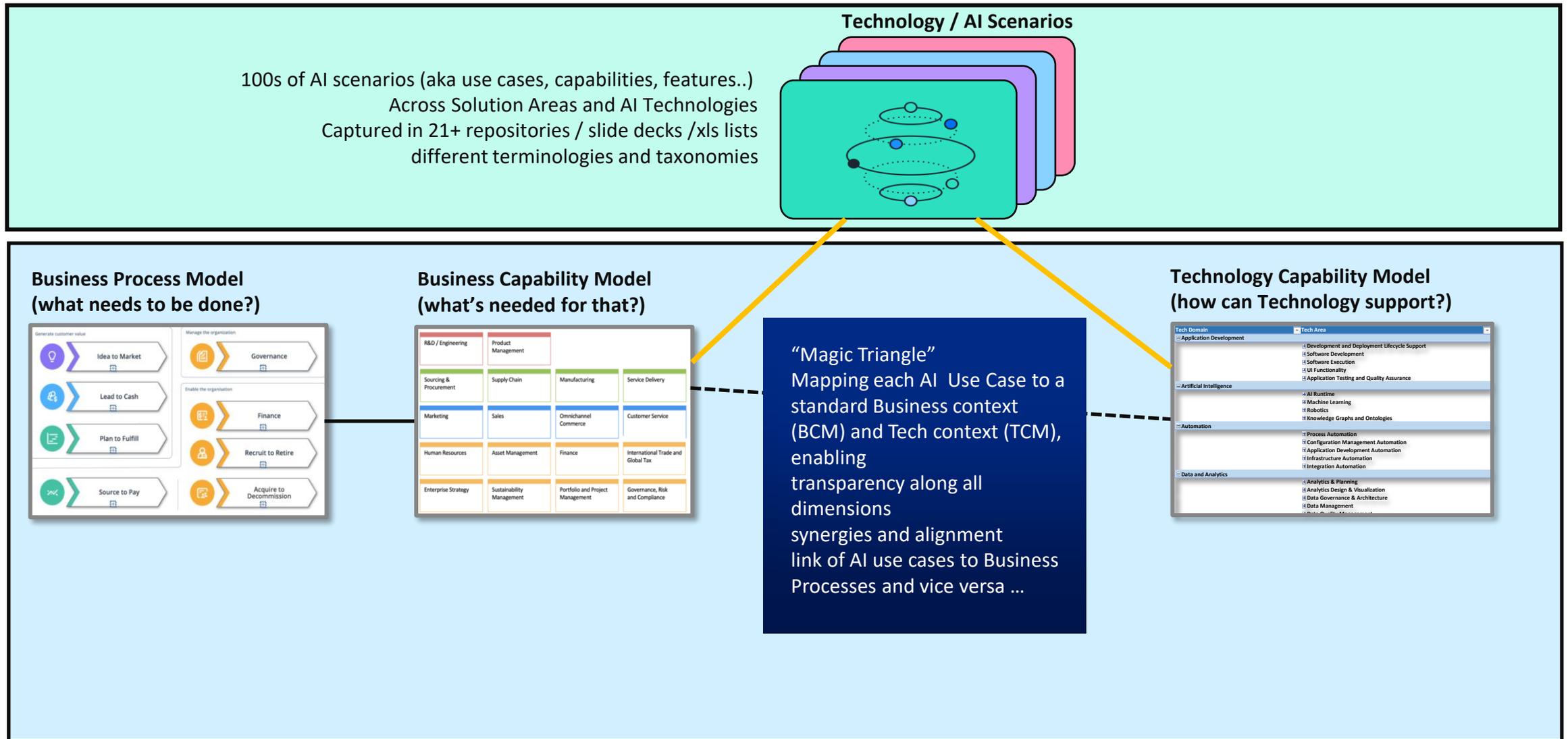
[Amazon Web Services](#) [Microsoft Azure](#) +3

Last Update: July 9, 2025

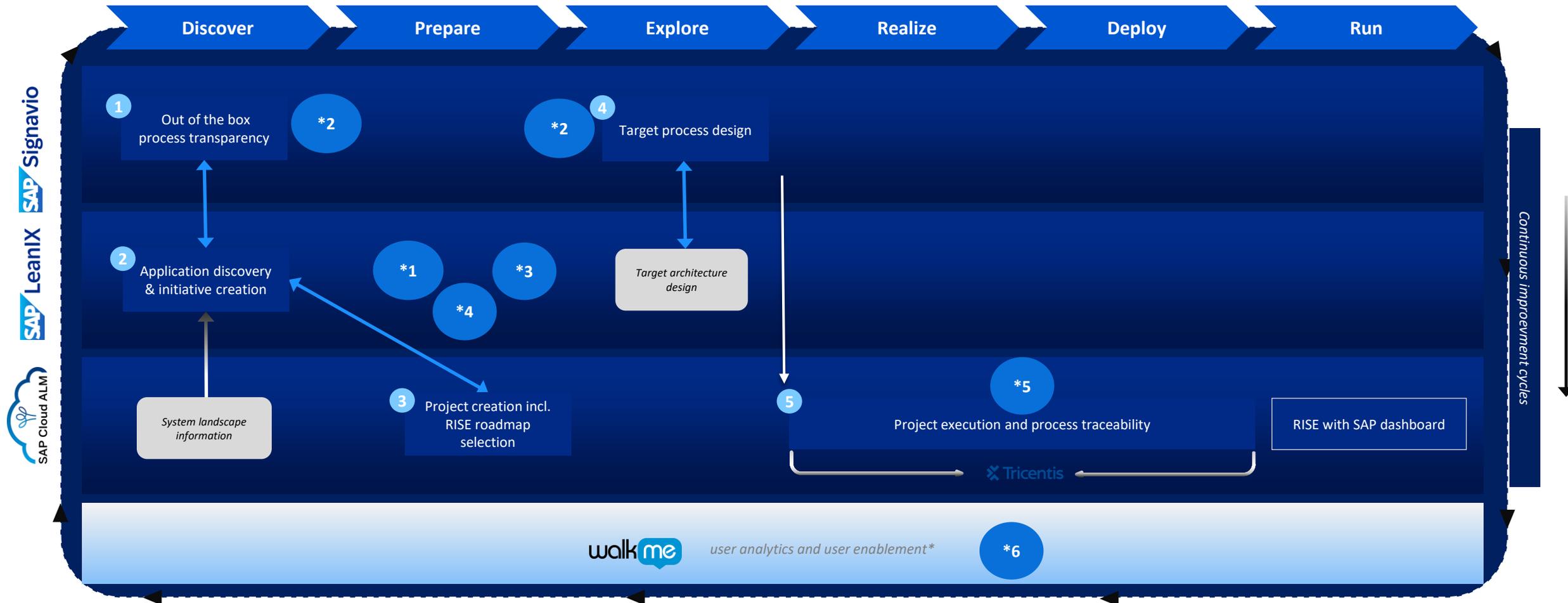


EA Framework Re-imagined

Business AI outcomes envisioned via EA Framework - I



EA process enriched with AI - II

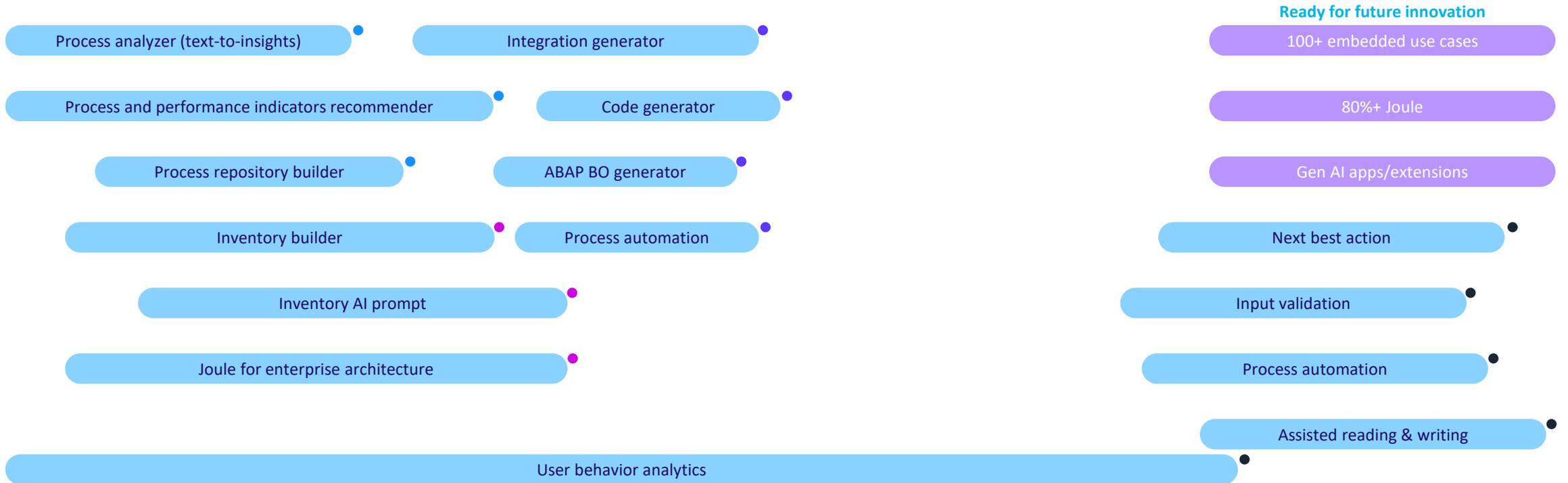


- AI-enabled capability maps *1
- Intelligent process diagnostics *2
- Enterprise modeling with AI annotations *3
- AI Suggested Architecture transformation *4
- Test Orchestration *5
- Adaptive learning paths, in-app guidance *6

Boosting your transformation with generative AI



SAP Consulting Capability and Joule for developers*

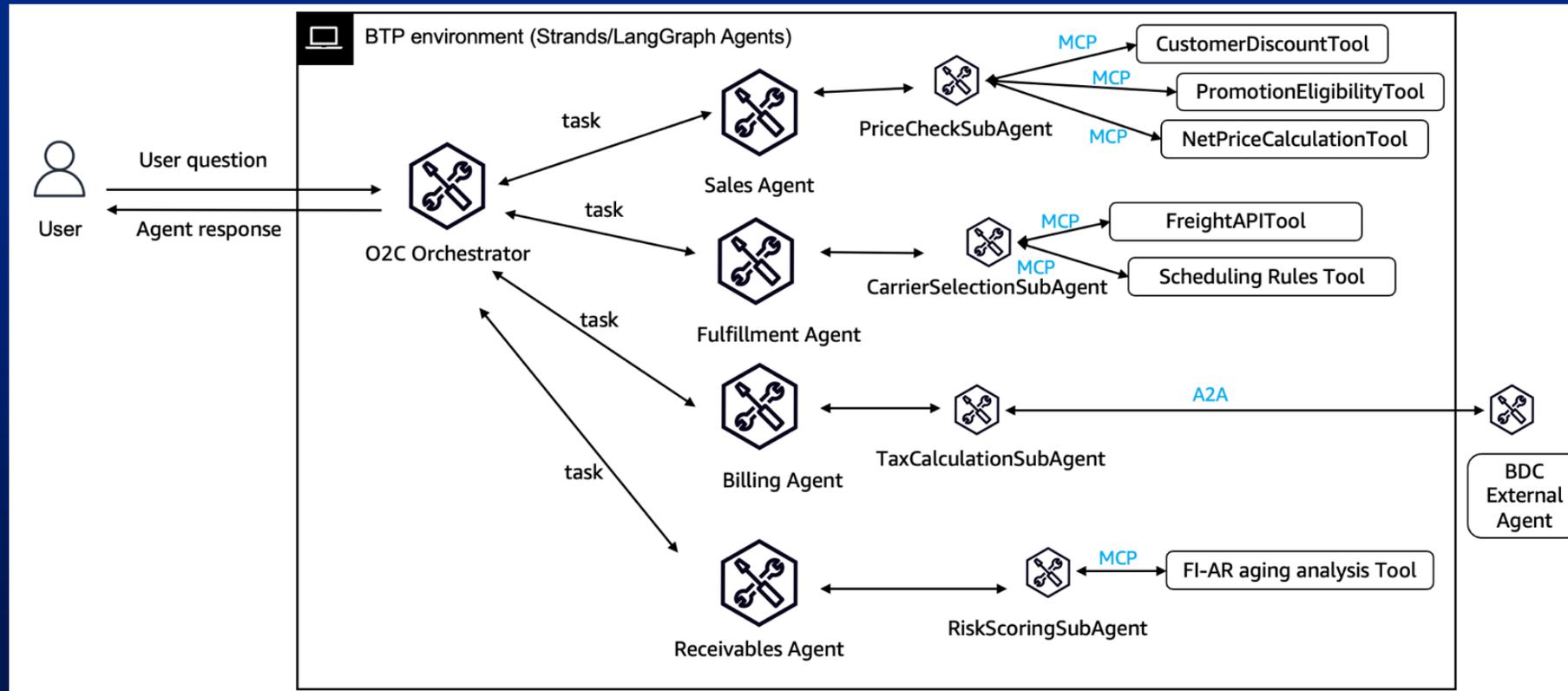


- Ready for future innovation
 - 100+ embedded use cases
 - 80%+ Joule
 - Gen AI apps/extensions
- Next best action
- Input validation
- Process automation
- Assisted reading & writing

● SAP Signavio ● SAP LeanIX ● SAP BTP ● WalkMe

Agent2Agent Collaboration Patterns

Orchestration flow – Agent to Agent communication

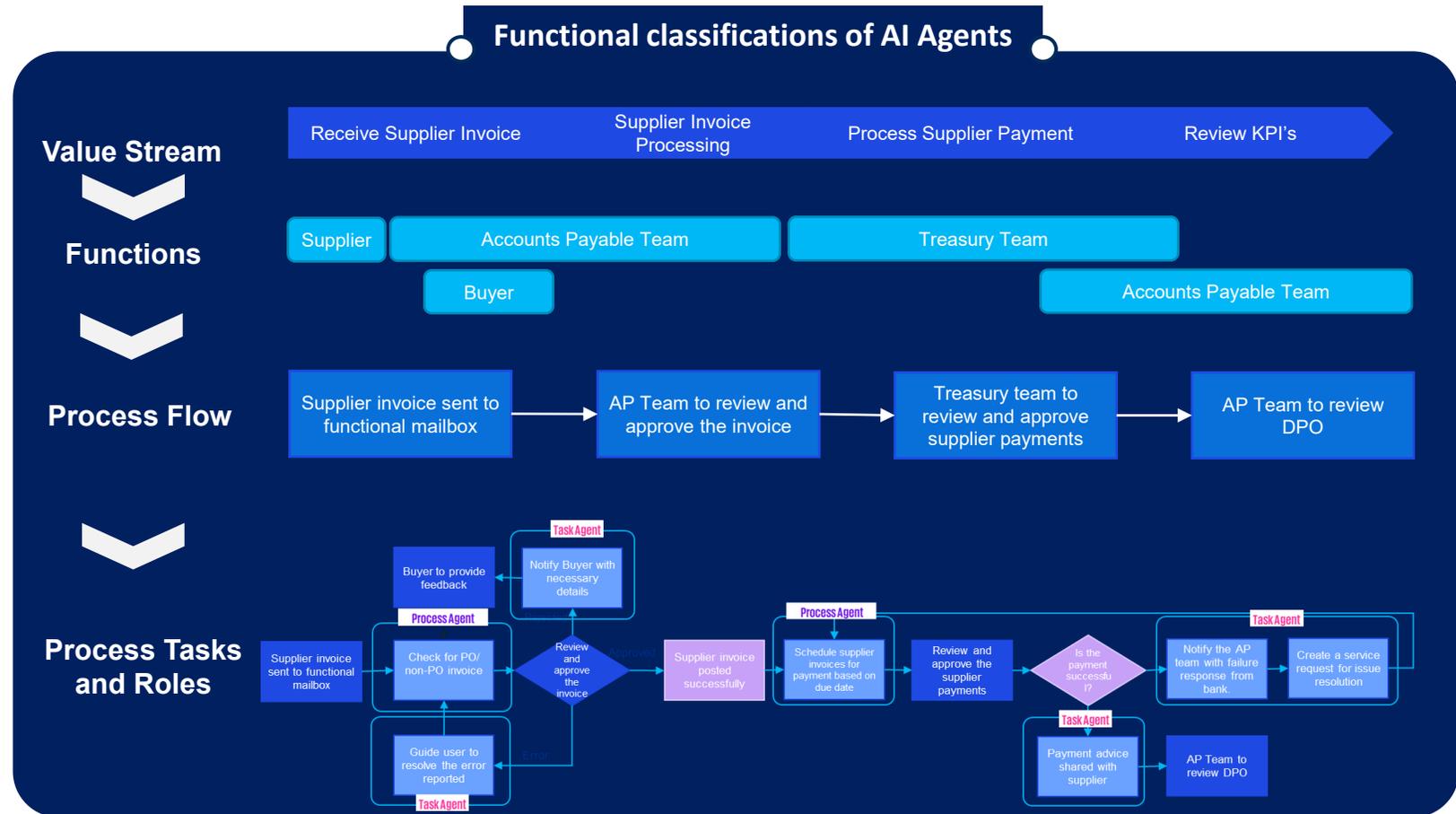
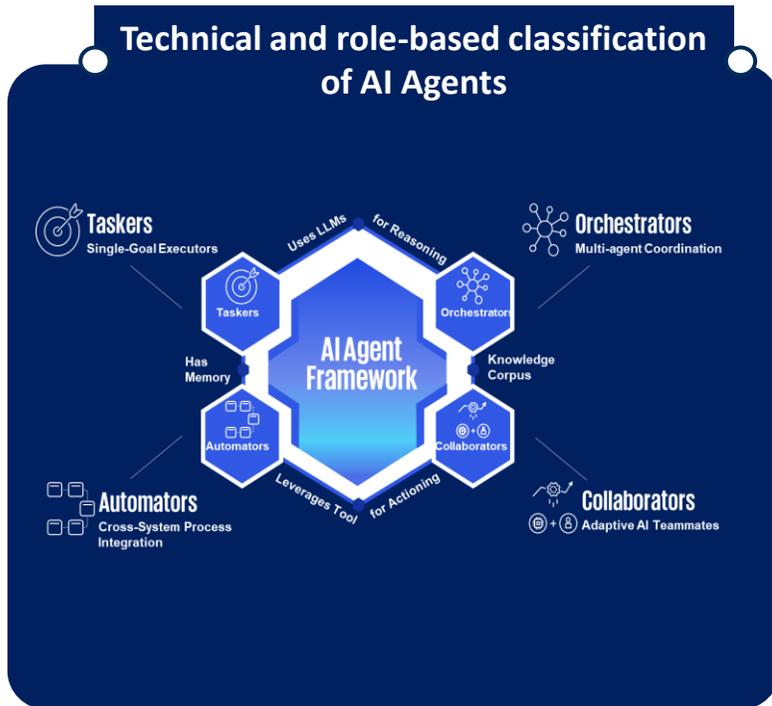


- Enables multi-agent orchestration across SAP and non-SAP systems.
- Example: Order-to-cash process. Onboarding agents in a seamless flow.
- Benefits: Speed, scalability, and reduced integration complexity.
- Requires shared data models, security protocols, and governance

Agentic AI and EA Architectural Shifts

“System of Records” to “Mesh of Agents”

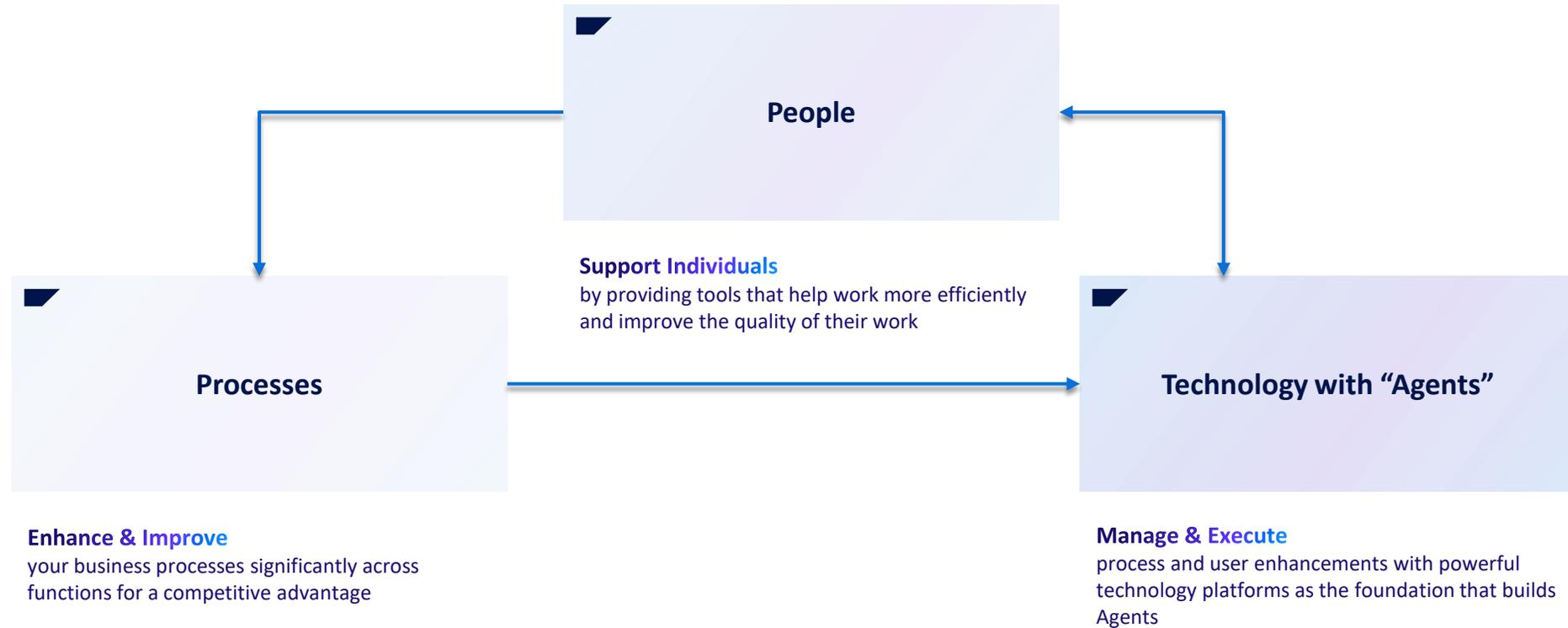
Integrated Framework for Agentic Workflow



Architectural Implications Agentic AI Adoption

“Process” to “Persona”

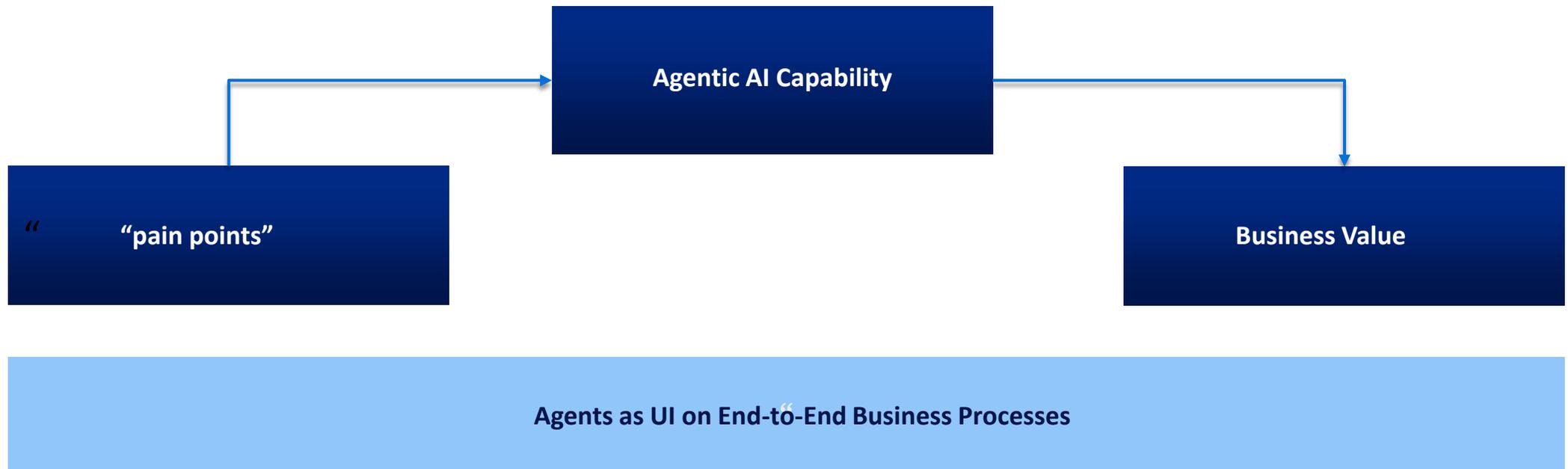
The new EA’s role



Call to Inspiration

What's Possible with SAP Business AI Agents

- Accelerating S/4HANA migration with coding agents
- Finance process automation w/ deterministic + generative AI blend
- Intelligent supply chain coordination with agent-to-agent orchestration
- And many more...

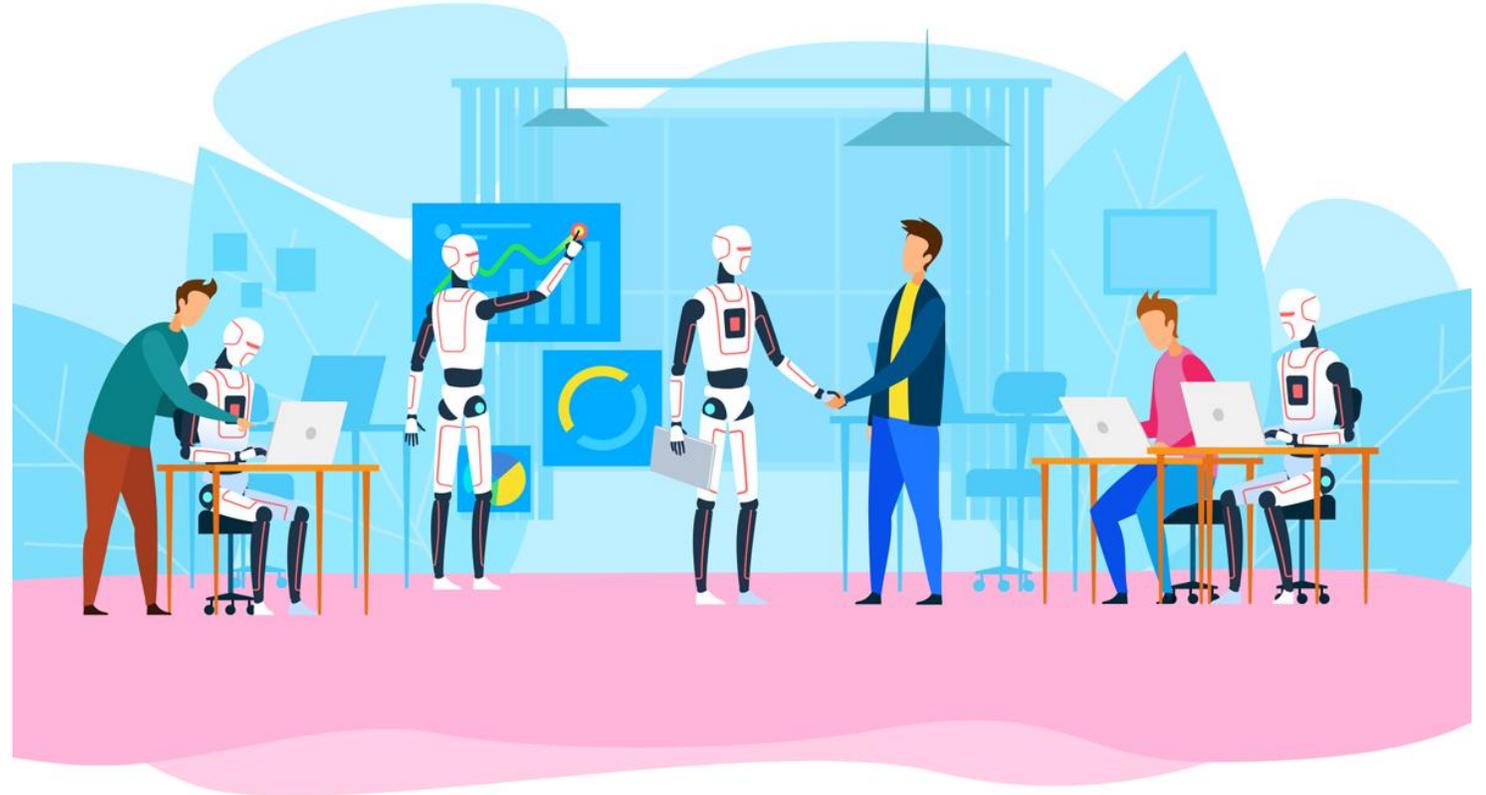


Future of Enterprise Architecture with Agents

Agents handle the “doer”
and “checker” roles

EA handles the
“Orchestrator” role

Enterprise Architects – The
digital Nervous system of
the Enterprise



Agentic AI for Architects

“The architecture we design today isn’t just for systems - it’s for intelligent collaborators. Build it so your agents, people, and processes can all thrive together.

Don’t just architect systems – architect intelligence!”

Raghu Banda, SAP



ENTERPRISE ARCHITECT
SAP COMMUNITY

[linkedin.com/in/banda](https://www.linkedin.com/in/banda)

Thank you

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Community Discussion:

What are your thoughts?

ASUG

What's Next?

Opportunities to Connect

ASUG

Engage Your Community

EA Community on ASUG:



EA Community on LinkedIn:





Upcoming Events:

- **September 23rd**, *WalkMe in Action: Accelerating User Adoption Across Your SAP Transformation*
- **October 15th**, *From Frameworks to Impact: Governing EA in the SAP Landscape*
- **October 14th**, *Driving Operational Excellence Through Digitization at California Department of Water*

**Visit asug.com/events to register for these and other upcoming Enterprise Architecture Events*



Upcoming Events:

**ASUG Best Practices for
Oil, Gas, and Energy**

October 6-8

Houston, Texas

ASUG Tech Connect 2025

November 4-6

Louisville, Kentucky



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Thank you!