# SAP Business Al



## All represents a huge value creation potential across industries, many organizations are actively looking into expanding their adoption

**Generative AI could add** 

\$2.6 to \$4.4 trillion

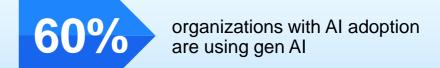
incremental value annually to the global Economy

Existing productivity value from previous generation of AI and analytics

## Widespread adoption, despite early days

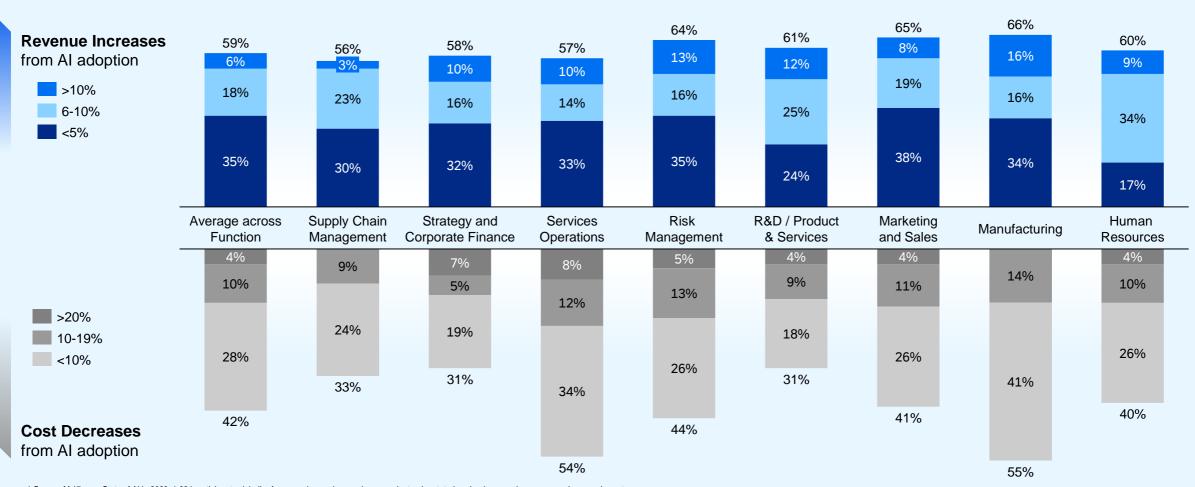






## Organizations are seeing both top and bottom line growth improvement by leveraging Al across functional areas

#### Revenue and/or Cost improvements from Al adoption in the function using Al capabilities<sup>1</sup>



<sup>1</sup> Source: McKinsey, State of AI in 2023, 1,684 participants globally. Answers shown above only respondents who stated seeing increase in revenue or decrease in costs

## **Customers wanting to adopt Business Al Desire Real Business Results**

How can the most important business insights be delivered with perfect clarity





How can employee productivity be augmented delivering improved outcomes

How can the entirely new processes be generated to transform business performance



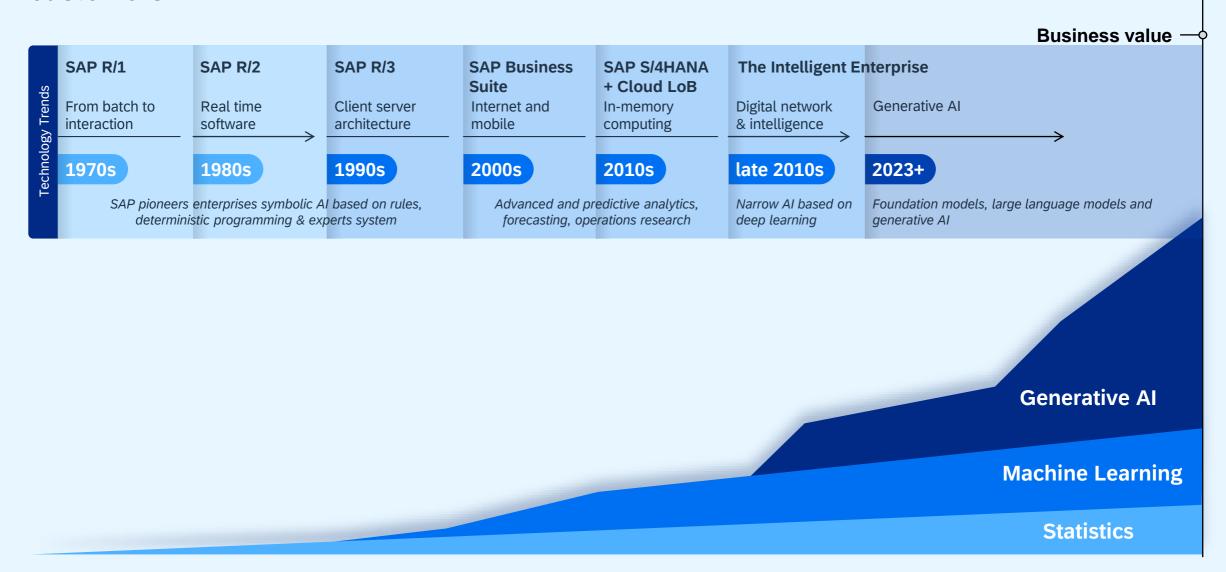
## **SAP Business AI**

**Relevant** 

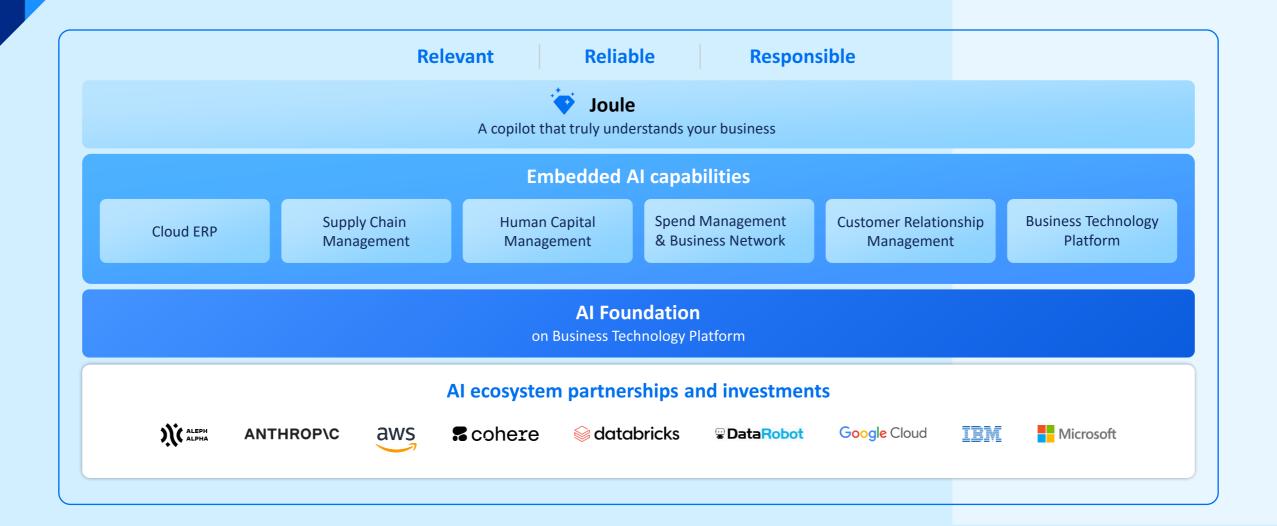
Reliable

Responsible

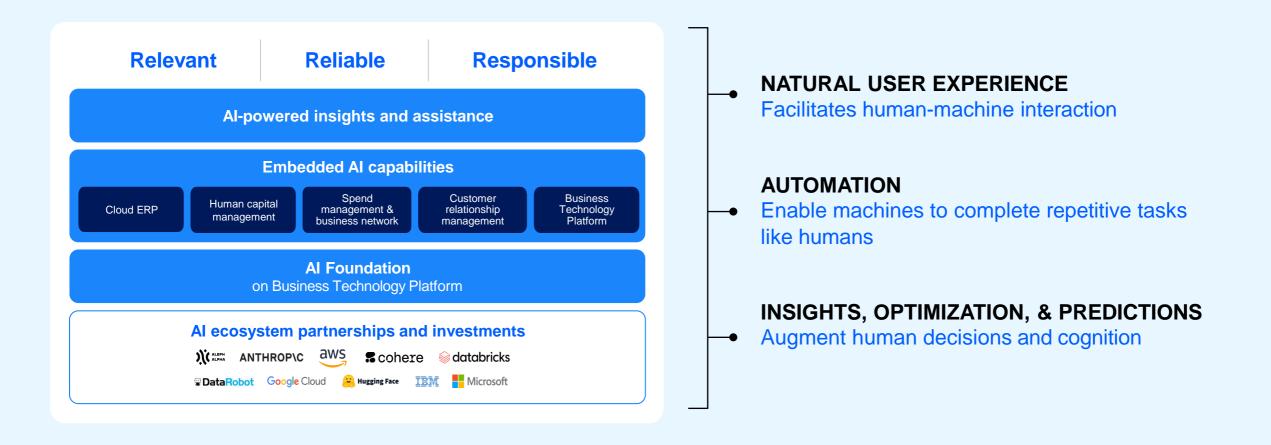
## Recent technology advancements mark a paradigm shift in how SAP will deliver value to customers



## Our business AI is embedded across the portfolio



## Only SAP Business AI can help customers unlock three sources of value in relevant, reliable and responsible manner for better performance

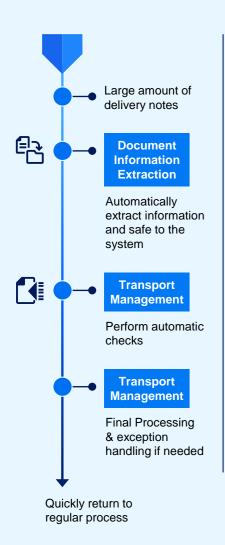


## Today, SAP offers a large catalogue of Al-powered scenarios across all business functions

Finance	Supply Chain	Customer Experience	Procurement	Human Resources	IT and Cross-Function
<ul> <li>Tax Compliance</li> <li>Cash Application</li> <li>Intelligent accrual</li> <li>Travel expense auditing</li> <li>Travel expense verification</li> <li>Invoice processing</li> <li>Business Integrity screening</li> <li>Goods and invoice receipt matching</li> <li>Mobile expense entry</li> </ul>	<ul> <li>Stock in transit</li> <li>Visual Inspection</li> <li>Demand forecasting &amp; sensing</li> <li>Project-cost prediction</li> <li>Predicted delivery processing</li> <li>Demand-driven replenishment</li> <li>Forward scheduling</li> <li>Field service scheduling</li> <li>Asset prediction &amp; optimization</li> <li>Slow-moving materials prediction</li> </ul>	<ul> <li>Predicted delivery processing</li> <li>Discount recommendations</li> <li>Intelligent sales execution</li> <li>Relationship intelligence</li> <li>Sales route optimization</li> <li>Sales order automation</li> <li>Opportunity scoring</li> <li>Customer insights</li> <li>Guided selling</li> <li>Lead scoring</li> <li>Product recommendations</li> </ul>	<ul> <li>Guided buying</li> <li>Sourcing item and supply prediction</li> <li>Material group recommendations</li> <li>Invoice object recommendations</li> <li>Job matching for contingent workforce</li> <li>Resume ranking for contingent workforce</li> <li>O'Net labelling</li> </ul>	<ul> <li>Skill and career path recommendations</li> <li>Learning recommendations</li> <li>Job analyzer</li> </ul>	<ul> <li>Joule</li> <li>Process automation</li> <li>Business rule mining</li> <li>Intrusion detection</li> </ul>

...Find out more on SAP Business Al

## Save up to 55% of delivery note processing costs with SAP Transportation Management Intelligent goods receipt analysis



#### Challenge

- Processing high volumes of daily deliveries while ensuring accurate freight orders
- Manual process is time-consuming, error-prone, and leads to manual rework, with the potential to cause significant delays and inefficiencies

#### Solution

#### **Digital Supply Chain – Transportation Management**

- Extraction of all relevant information automatically from the document e.g., Delivery note and post data to the system
- Automating processing incl. Checks
- System can flag exceptions in freight orders, allowing clerks in the back-office to handle them and speed up the process for trucks without exceptions

#### **Benefits**

- Automated checks can be conducted with greater accuracy, minimizing errors and reducing the time required for manual checks
- Leading to overall a significant reduction in the hours spent on manual checks and waiting times for logistics carriers
- Ultimately improving operational efficiency and saving valuable time

Average Business Value for Customers
Calculation Method / Assumption In Notes

Saves €0.42

Per page of a delivery note\*

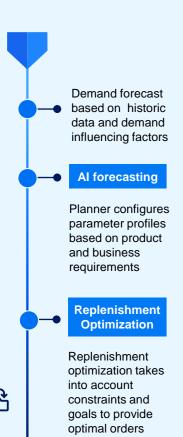
Up to 80% Instant Accuracy

**Customer / LoB Spotlight** 

Up to ~730k€/yr Expected Savings
Per Factory

- \* Assumptions:
- Average field recognition rate: 80%
- Human cost rate: 50.- Euro/hour
- Today's manual processing time per page: 1 minute
- Calculated by savings of labor cost minus cost for DOX service

### Automating the optimization of your stock with SAP Predictive Replenishment



Resulting order proposals can be reviewed in case of issues detected or are automatically transferred

#### Challenge

 Retailers are challenged by supply chain disruption volatility and therefore are seeking to achieve supply chain resiliency and tackle the delicate balance between missing out on revenue potential and handling excess inventory

#### Solution

SAP Predictive Replenishment provides an automatic ordering of replenishable retail products with the help of forecasted demand and highly automated services

- Automatic ordering of replenishable products for distribution centers
- Service level—driven replenishment for distribution centers by considering a multitude of aspects such as constraints, demand volatility, and more
- Alerts for monitoring and controlling, order proposal reviews, exception handling
- Easy configuration of planner responsibility and business objectives

#### **Benefits**

- Reduced revenue loss due to stock out
- Lower inventory costs and increased margins
- Increased productivity of replenishment planners
- Decreased manual workload with high levels of automation

Average Business Value for Customers
Calculation Method / Assumption In Notes

1%-30%

Reduced revenue loss due to stock out

1%-25%

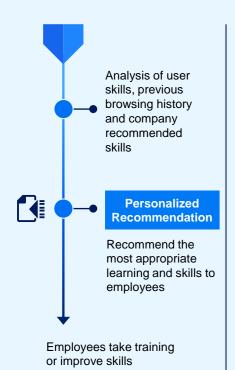
**Reduced inventory costs** 

10%-20%

**Increased order management** FTE productivity

Source: SAP Value Lifecycle Manager

### Build a future ready workforce with SAP SuccessFactors Learning Recommendation



#### **Challenge**

- Overwhelming volume of learning information that makes it difficult to notice and keep track of useful information, thus lack of individualized learning experience
- Learning is primarily organization driven today with a focus on maintaining compliance and is manual / tactical rather than being strategic and programmatic
- Lack of effective tools that makes it difficult for the employees to find the most useful information or learnings
- Companies need to grow specific skills in their workforce to increase their competitiveness in their market

#### Solution

#### **Talent Intelligence in SAP SuccessFactors**

- Connects employees with personalized learning beyond traditional course catalogues to fit their learning goals and situation
- Lets company push forward skills that are expected for the growth of the business
- Significantly improves often chronically low training completion rates
- Analyzes employee profile & interaction history to recommend personalized learnings beyond traditional course catalogues

#### **Benefits**

- Employees see that the company is supporting with suitable learning recommendations for their growth plan
- Personalized / Individualized experience results in enhanced employee engagement / satisfaction
- Make better use of vast amounts of relevant and current learning content available
- Companies grow the skills they target for their future evolution

## Average Business Value for Customers Calculation Method / Assumption In Notes

78% Completion rate for recommended trainings, delivering targeted skills to complete employee profiles

## Talent development to build a better workforce

## Help organizations create a culture of learning

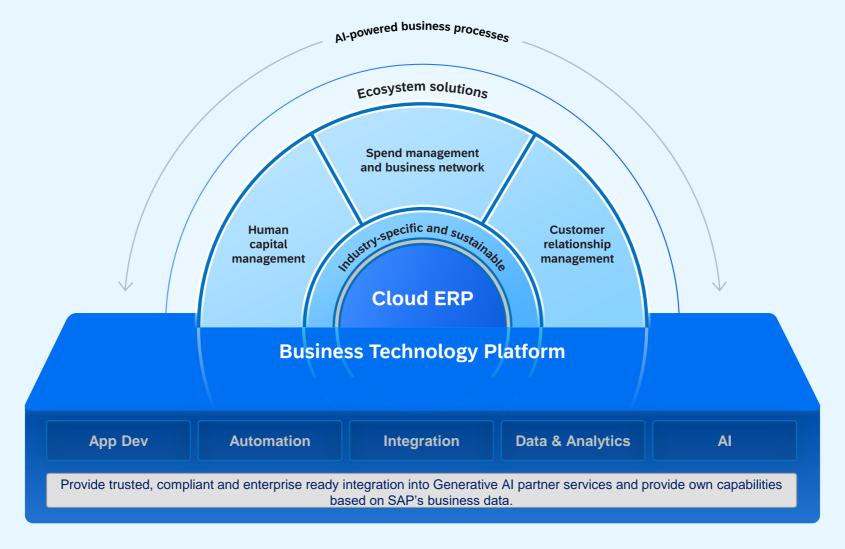
#### **Customer / Telefónica**

77% Of talent profiles completed, enabling intelligent matching of candidates to positions

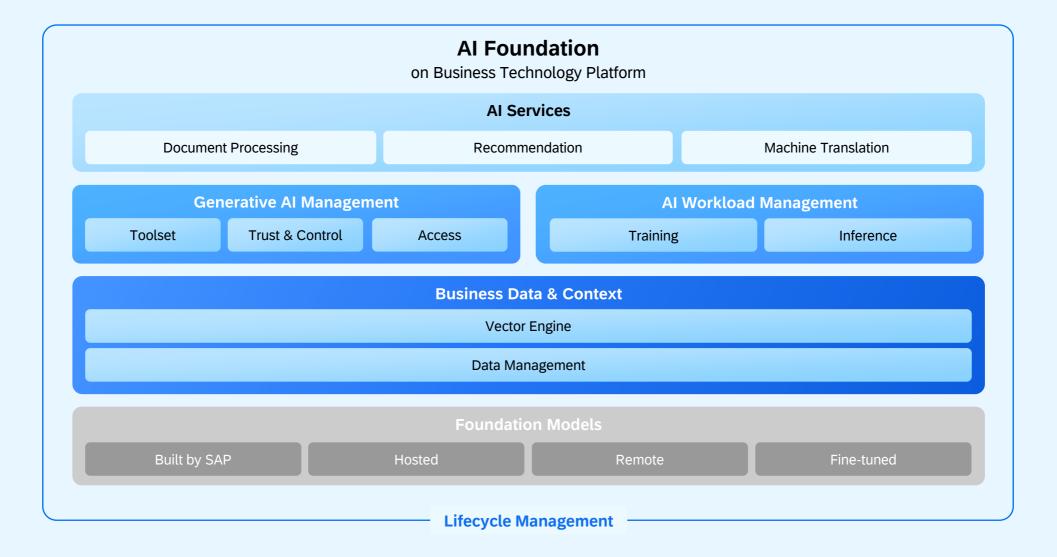
"With support from SAP, we have been able to extend the functionality in SAP SuccessFactors solutions to create an innovative solution that helps employees identify and develop the skills that will be Vital in the digital world and the future of our company"

Gabriel de Diego, HR Strategy and Transformation Director, Telefónica S. A

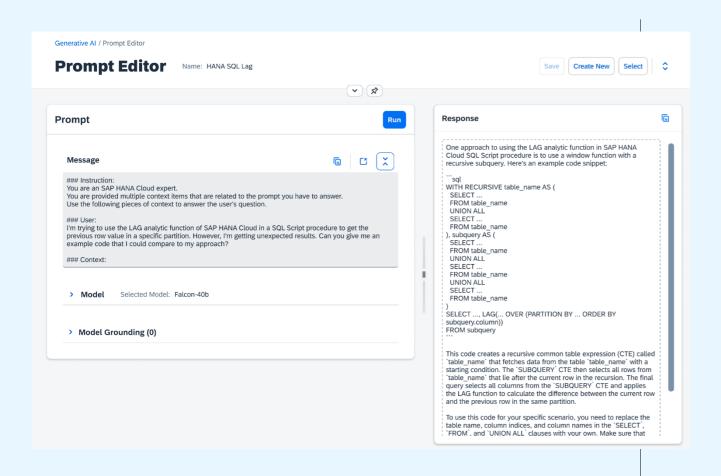
### BTP as enabler to infuse Generative AI into our entire portfolio



## A complete set of services for AI developers on SAP BTP



## Explore models and engineer better prompts with generative AI hub playground in SAP AI Launchpad





### **Explore**

the possibilities and responses of different models with a single click



#### **Create**

requets that best satisfy your needs in a dedicated prompt engineering tool



### Manage

The lifecycle of your prompts to guarantee their best usage into your applications

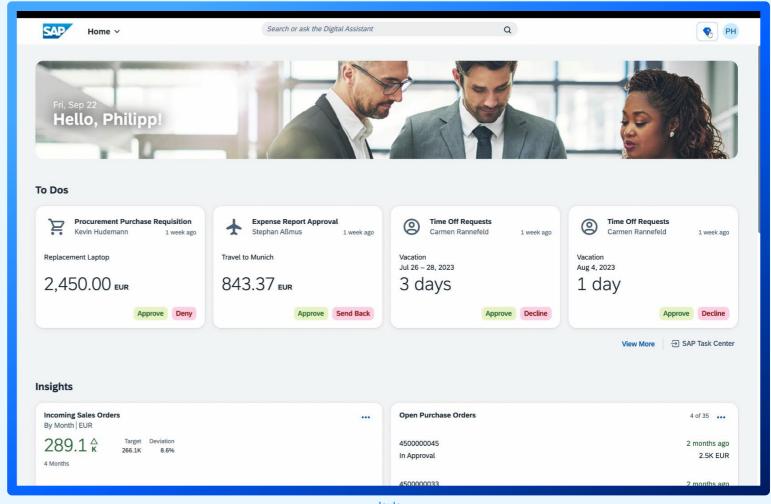
## Joule - the AI copilot that truly understands your business

Work faster with an Al copilot that truly understands your business

Benefit from smarter insights and quick answers on demand

Achieve better outcomes when creating content, code, and more

Maintain full control over decisionmaking and your data privacy

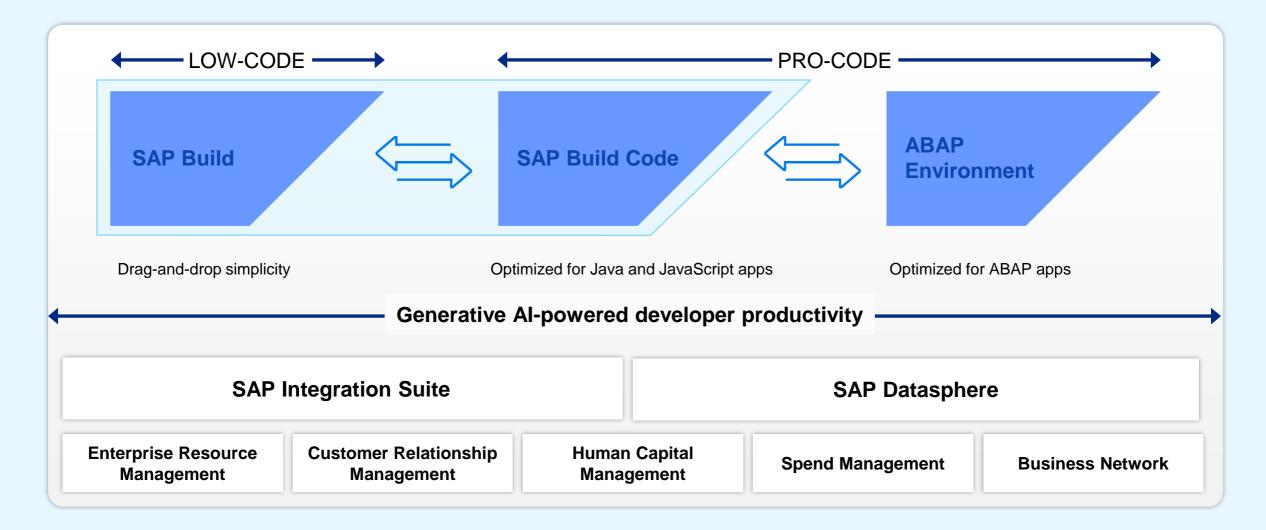


Joule

Note: Planned availability in SAP business applications at different times, starting with SuccessFactors and SAP Start in Q4 2023.

## Application development and automation on SAP BTP

Integrated solutions enabled by generative Al



## Unlock insights with Al-infused SAP Data & Analytics Portfolio

SAP Analytics Cloud Extended Planning and Analysis



SAP Datasphere
Business Data Fabric



SAP HANA Cloud
Intelligent Data Application



#### Conversational

Access swiftly to insights and accelerate your use of major workflows using natural language and leveraging large language models

#### **Augmented**

Get accurate and consistent insights for fact-based decision-making

#### **Predictive**

Predict potential outcomes, generate forecasts and automate predictive planning

#### Governed

Provide proper and governed data foundation for Al cases, incorporating semantically rich data from SAP and non-SAP sources

#### Open

Integrate SAP Datasphere with AI-enabled stack of tools and processes through an API-first approach

### Simple

Achieve business outcomes faster and easier with innovations, such as automated modeling

#### Intelligent

Empower developers to build apps that utilize multimodel and machine learning capabilities and connect to vital business data

#### **Integrated**

Process, store, and analyse any data type – relational, geospatial, graph, JSON, and vector – in one flexible and adaptable database

#### Secure

Provide private context to generative AI applications via similarity search against high-dimensional embedding vectors

## Get answers to business questions in natural language in SAP Analytics Cloud AI-powered queries for analytics in natural language





#### **CHALLENGE**

- Information consumers have little to no experience with analytics tools
- Information consumers access to insights is limited to existing dashboards
- IT teams face challenges to keep up with growing business demand for insights

#### **SOLUTION**

#### **Just Ask for SAP Analytics Cloud**

- Empower Information consumers to get answers on their own
- Scale the use of analytics & fully leverage your data assets
- Analytics teams can focus on delivering strategic insights

#### **OUTCOMES**

### **Accelerate**

Access to relevant insights

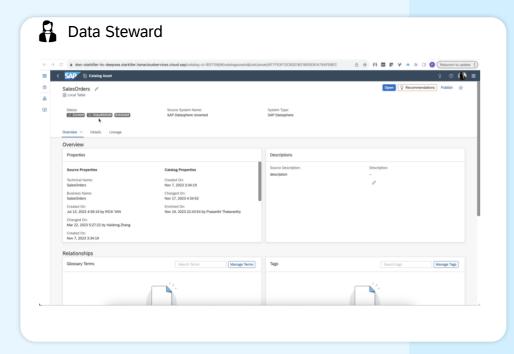
### Increase

Analytics adoption for the 80% occasional users

## **Empower**

Users to answer their business questions

## Enhance data discoverability with GenAI in SAP Datasphere GenAI automatically populates the data catalog metadata



#### **CHALLENGE**

The Data Catalog in SAP Datasphere enables users to enhance their data assets with various enrichments like business descriptions, hierarchical tags and glossary definitions. This helps better discovery and understanding of their data. However, with millions of data assets in their landscape, adding enrichments for each asset is manual and cumbersome.

#### **SOLUTION**

The fields in the data catalog get filled out with suggestions automatically requiring only the click of a button.

**OUTCOMES** 

**Enhance** 

Data discoverability

Save

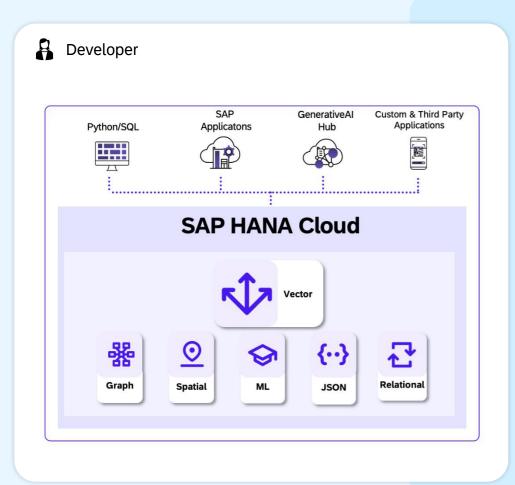
**Hours of manual efforts** 

**Easy** 

Handling for the user

### **SAP HANA Cloud Vector Engine**

### Storing Embedding Vectors and Similarity Search



#### **CHALLENGE**

- Generative AI Retrieval Augmented Generation (RAG) scenarios by providing business context using embedding vectors
- Semantic search, clustering, outlier detection, ...

#### **SOLUTION**

- Store high-dimensional vectors along enterprise data
- Run fast vector searches using SQL
- Combine results from vector-based similarity search with other SQL operations like joins, filters, aggregations
- Enable Generative AI applications with out-of-the-box vector engine capabilities in SAP HANA Cloud

#### **OUTCOMES**

#### **Generate**

Coherent and fact based responses with business context

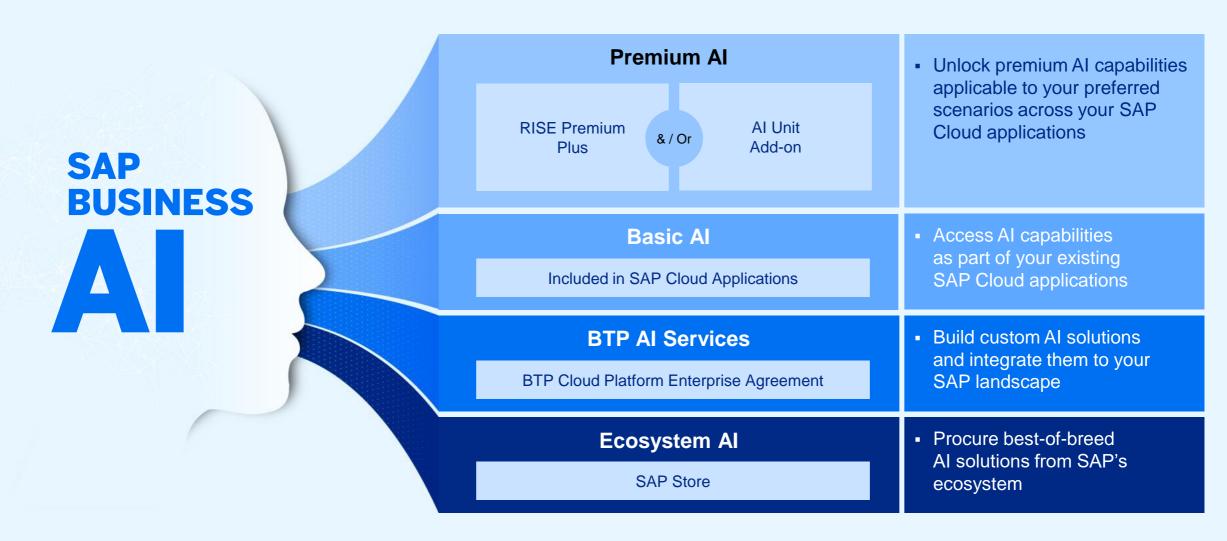
#### Reduce

Significantly the model 'hallucination' behavior

#### **Secure**

Sensitive and confidential information

## Customers already benefit from artificial intelligence capabilities as part of SAP's Cloud applications and will soon be able to unlock new premium features

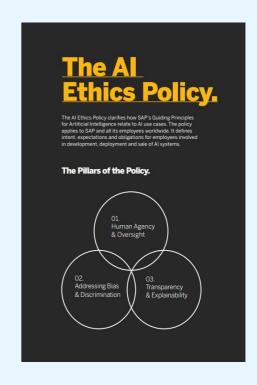


## Al built on leading ethics and privacy standards

Guiding principles and policies that steer the development and deployment of our AI software

Data protection and privacy standards that you can trust to run your business on

Governance model with external AI ethics advisors and cross-functional operationalization





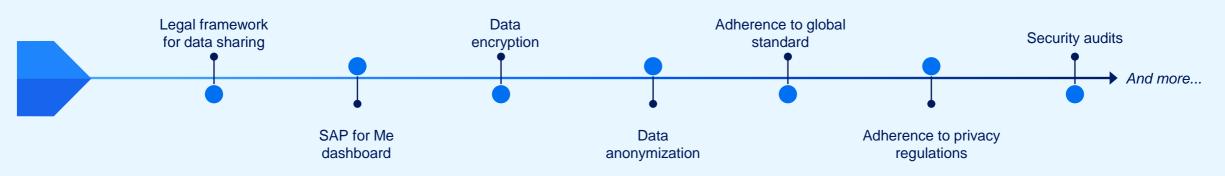
#### From trust to trustworthiness

Full transparency and control over your data through a central dashboard

Anonymized customer data combines accuracy with uncompromised security

Security and data privacy at the core our systems and processes from the beginning





### **Ensuring data privacy for Generative Al**

#### **RESPONSIBLE AI**

SAP's use of generative Al follows the same principles of business Al.

A rigorous development and responsible AI review processes.

SAP Global AI SAP Product Ethics Policy Standards

#### **DATA USAGE**

For predictions, customer data and context is required to receive meaningful results.

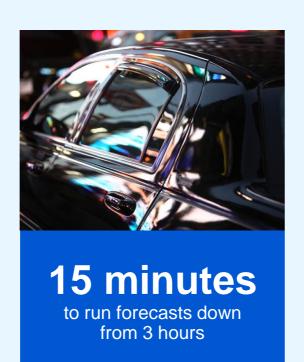
SAP ensures that **no customer data is used** by third-party vendors to train foundation models.



### It's time to realize your potential with Business AI from SAP



99% of incoming payments automatically assigned





saved each month by reducing repetitive tasks



91.5% of employees use intelligent reskilling application









