

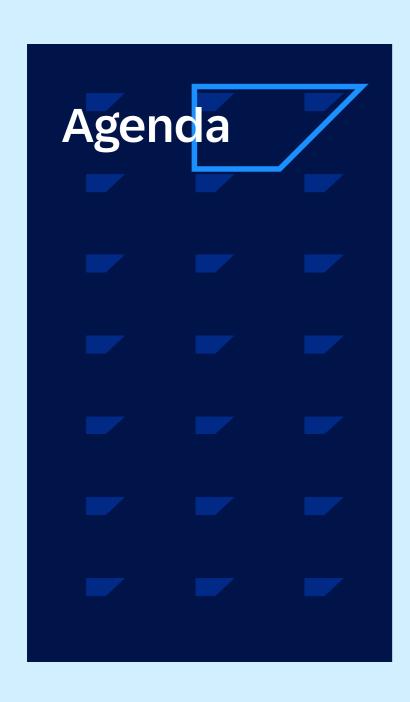
SAP Business Unleashed Innovation Day

When you connect everything, you can achieve anything.



Business Data Fabric - Five Steps to a Business Data Fabric Architecture

Pierre van Rooyen - BTP Domain Advisor



- The Value of a Business Data Fabric
- How to Build Your Future on a Business Data Fabric (the five steps)
- From data mesh to a Business Data Fabric
- How SAP Business Data Cloud strengthens a Business Data Fabric

The Value of a Business Data Fabric

The driving forces for data management today



Applications, Al, and planning require context from quality, trusted data



Business context and logic, especially metadata, is often removed or incomplete for business data



Gen AI can be next revolution in productivity, but it requires context and quality data

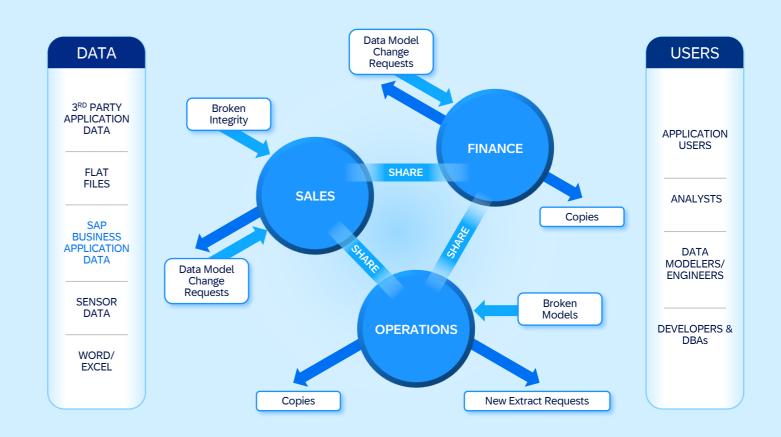


The majority of business users lack data context necessary for data to be useful

Extracting data from your landscape removes its context and meaning

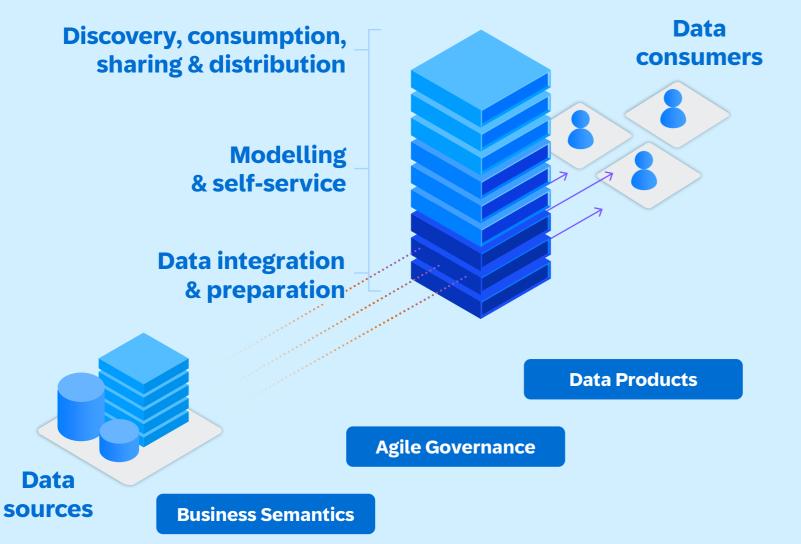


- Requires extensive time and effort to recreate business logic
- Inhibits the ability to deliver business data for business users
- Widens the divide between transactional and analytical data



Deliver business data in business terms with a business data fabric





- Deliver business data in business terms to ensure business users can easily understand and use corporate data
- Preserve the context and semantics of data including business descriptions, metadata, and relationships
- Accelerate self-service culture inside and beyond business functions

How to Build Your Future on a Business Data Fabric

5 Step Framework towards a Business Data Fabric



1. Data ingestion:

- The first step is to ensure that all your data, whether it's structured or unstructured, can be easily ingested into the system.
- A business data fabric, with its open data ecosystem, allows for more seamless data ingestion, regardless of the source or the format of the data.

2. Data integration:

- Data from various sources must be integrated and transformed into a unified format easily consumed by data users.
- The interoperability of a business data fabric enables data from different sources to be combined and connected rather than simply moved around.

3. Data governance:

- With the increasing complexity and volume of data, governance becomes paramount. This includes ensuring data quality, privacy, and compliance with various regulations.
- A business data fabric helps ensure effective governance by maintaining metadata, lineage, and control measures.

4. Data cataloging:

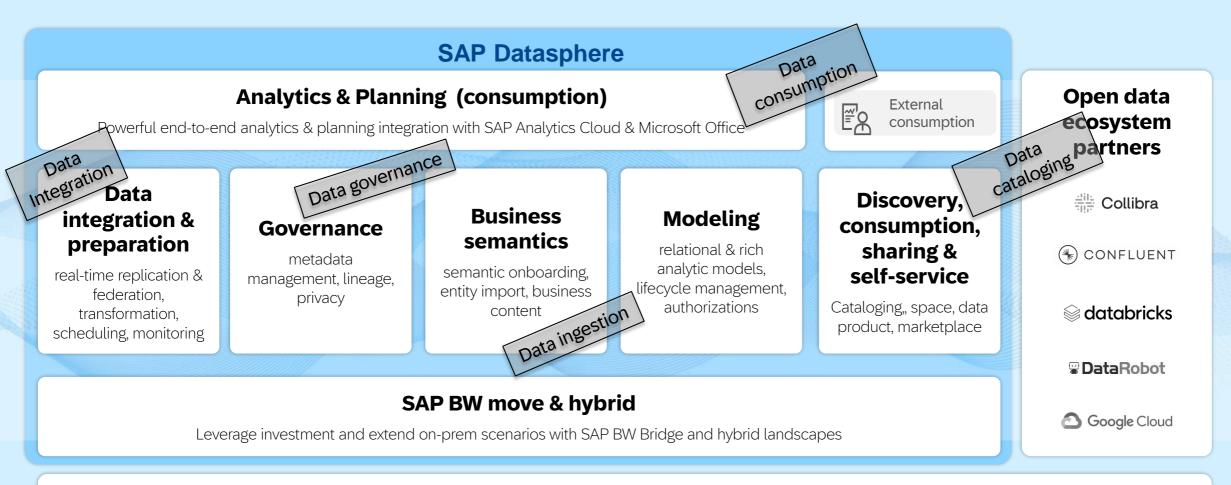
- This involves creating an inventory of data assets and their metadata.
- The catalog serves as a single source of truth for users to find, understand, and trust the data they need. It's a critical component of the business data fabric that allows data consumers to understand the business semantics.

5. Data consumption:

- Finally, it's about delivering the right data in the right format, at the right time, and to the right people.
- The business data fabric supports data federation, which enables unified and consistent access to data across diverse sources, reducing data redundancy.
- Data is presented in business-friendly terms, with contexts, making it simpler for data consumers to interpret and use the data for their specific use cases.

SAP Datasphere is the foundation for a business data fabric architecture





SAP and non-SAP data

Applications

On-premises
Data Warehouses

Cloud Data Warehouses and Lakehouses

Relational Databases Unstructured/ Semi-structured Data

How SAP Business Data Cloud strengthens a Business Data Fabric

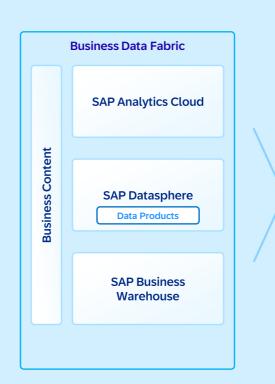


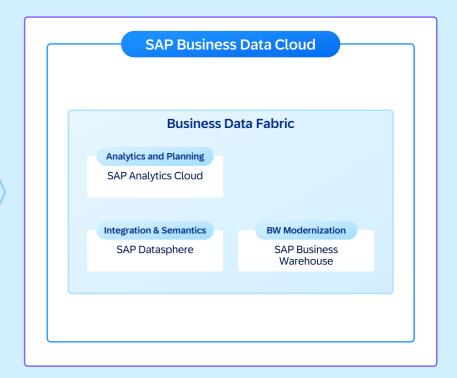




Enhance the use cases to create additional business value

- Pivotal evolution of the Business Data Fabric
 leveraging existing solutions and investments with SAP Analytics Cloud
 (for planning), SAP Datasphere and SAP BW or SAP BW/4HANA and its
 capabilities
- SAP BW modernization
 take your SAP BW or BW/4HANA investment along and enable custom data products on your BW data



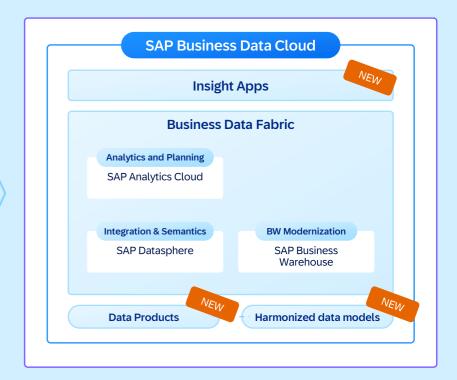




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- SAP data products and insight apps
 deliver the next-level business content eliminating the need for manual
 data integration and modeling while accelerating the process from data
 to insights



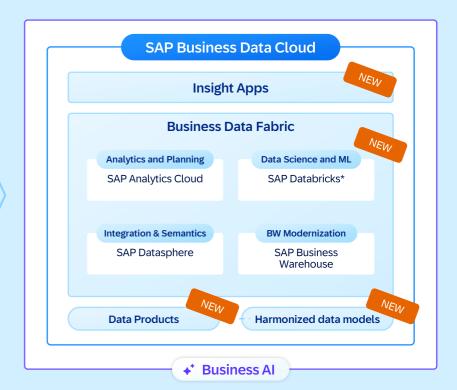




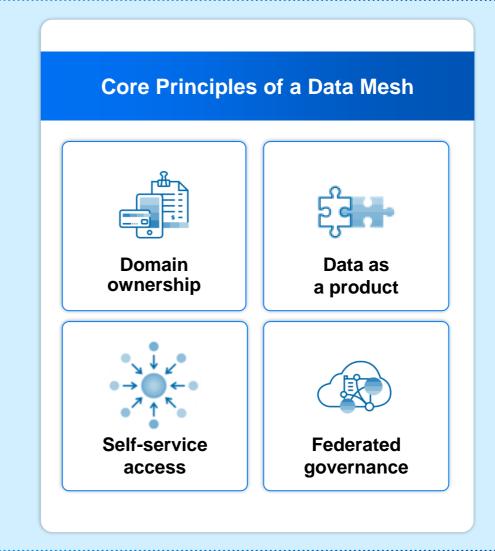
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 to insights
- Data science and ML use cases
 on an integrated platform leveraging SAP Databricks* and
 object store technology with zero copy delta share
- Infuse AI with Joule
 unifying data platforms and business applications to
 establish the foundation for SAP Business AI

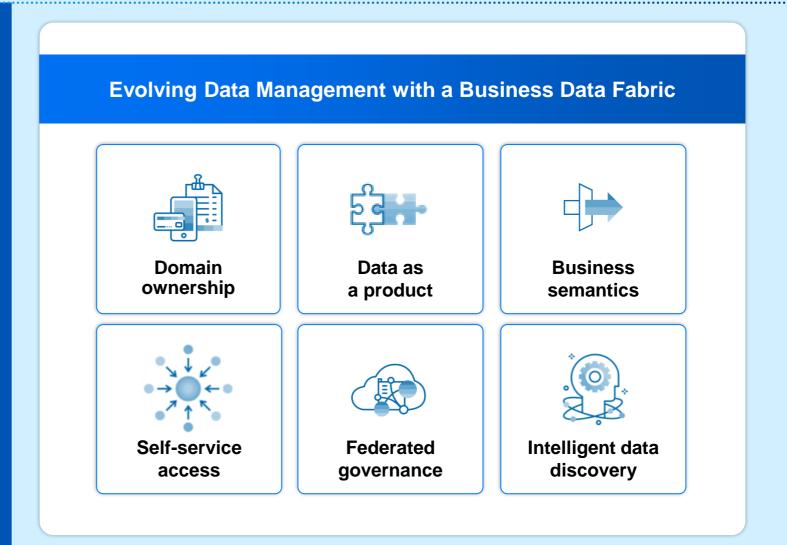




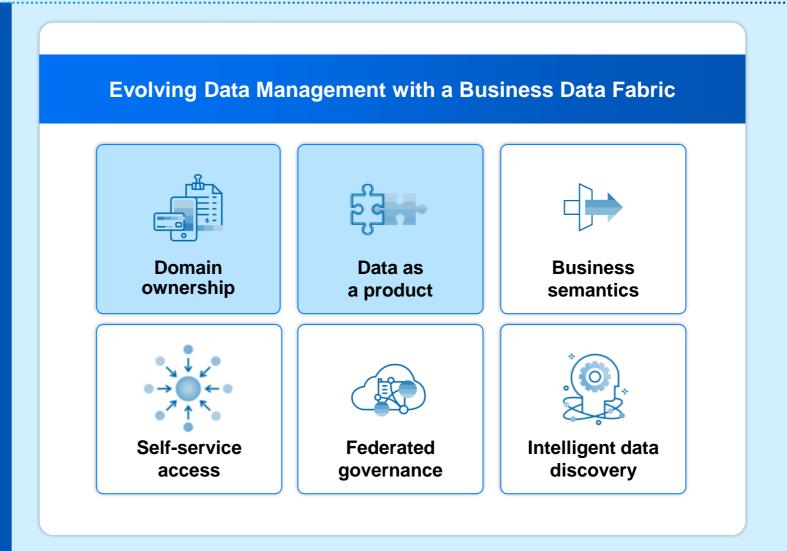












From a Data Fabric to a New Data Product Economy

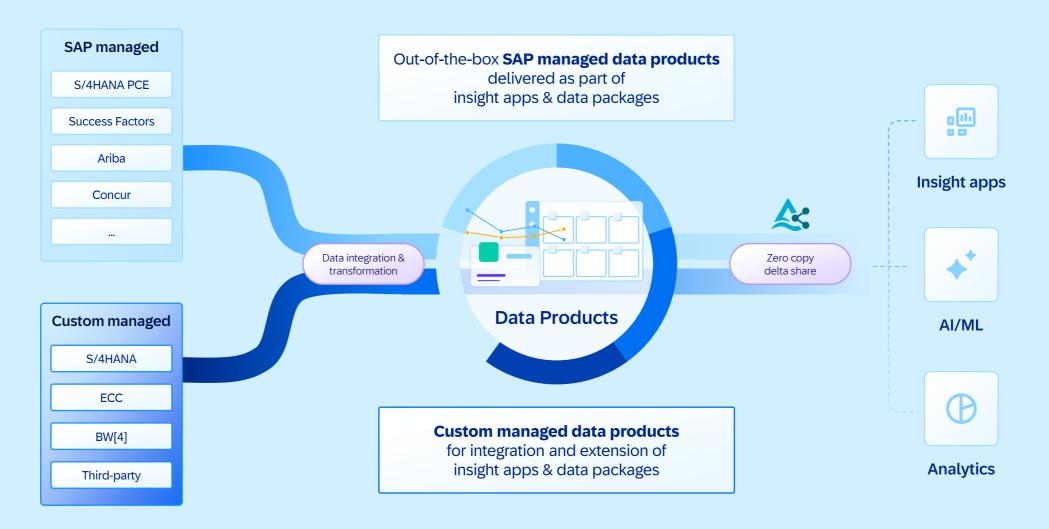




Customers and partners can generate unique data products, Al models, and insights apps and fully participate in SAP's data product economy

Establish a Data Product Economy to serve multiple use cases

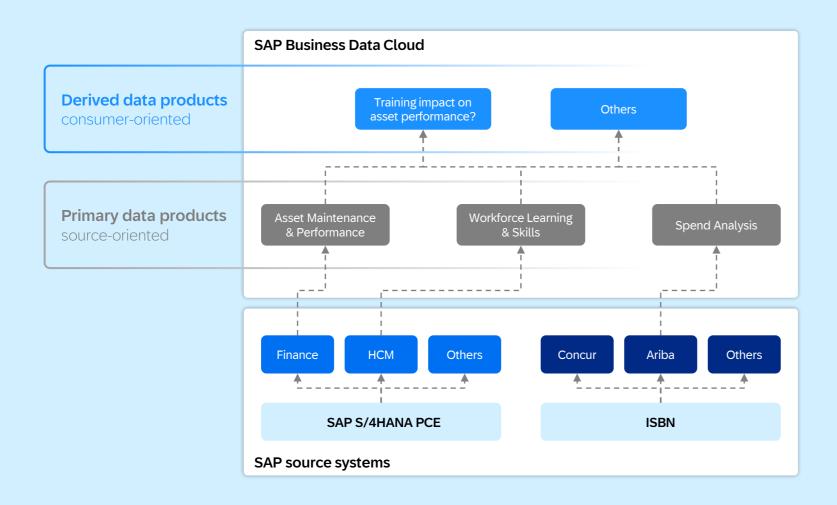




Organize SAP data through data products

A service to minimize time to insight





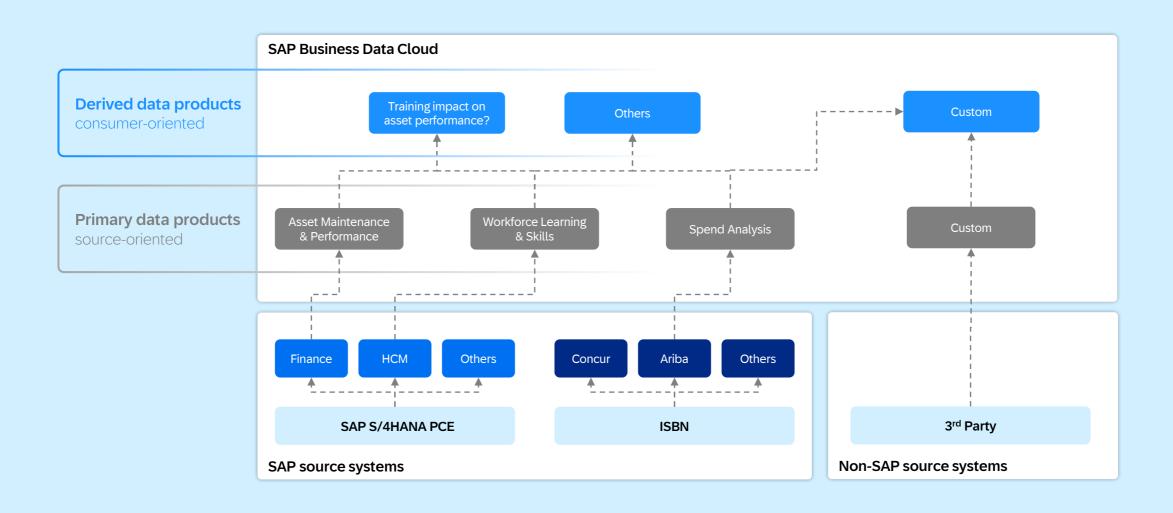
Primary and derived data products

A **derived data product** is curated by SAP and derived from other data set(s). They deliver value-add and are based on other data products or APIs.

A **primary data product** is directly provided from applications and is not based on other data products representing the original data from a source application.

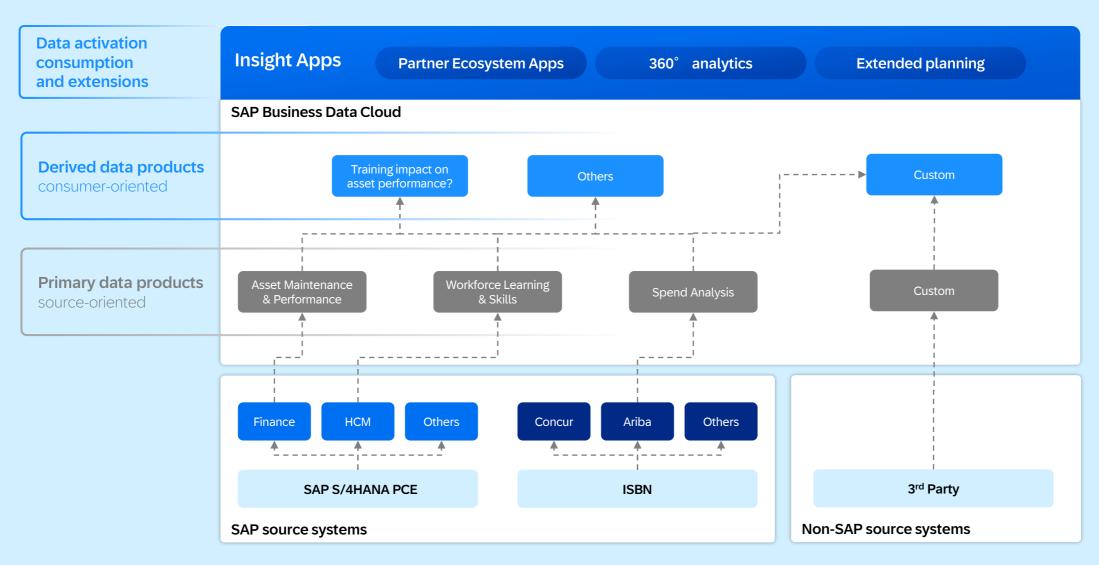
Extending the Business Data Fabric with non-SAP data



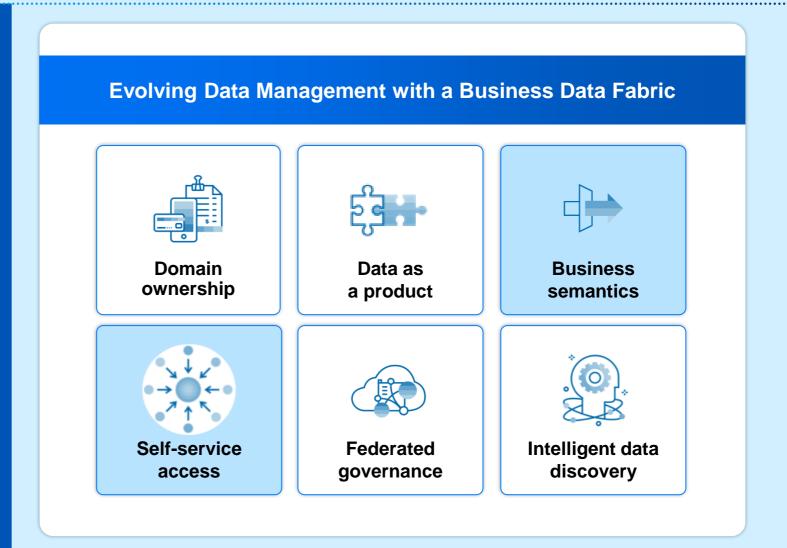


Extending the Business Data Fabric with non-SAP data

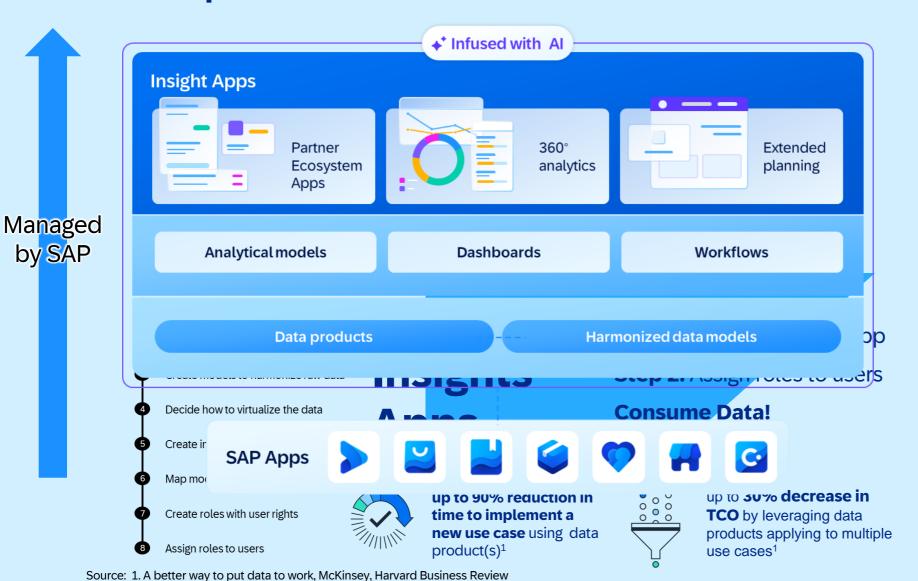








Insights Apps leverage curated data products for the datadriven enterprise





Flip a Switch for Analytics

Managed by SAP

- Data Extraction from SAP Applications
- Harmonized Data Model
- BI Dashboards and Planning Apps
- Infused with AI

Insight Apps



Core Enterprise Analytics

E.g. <u>Working Capital</u> - Enabling companies to effectively make use of current assets and maintain sufficient cash flow to meet short-term goals and obligations.



Spend Analytics

SAP Spend Control Tower is SAP's new, nextgeneration analytics solution designed to give companies faster, better visibility into enterprise-wide spend data











Order Management

Inventory and



Core Enterprise Analytics

- Working Capital
- Finance Foundation
- Sales Analysis
- Enterprise Asset Mgt
- Service Analysis
- Solution Business

People Analytics

- Employee Central
- Learning
- Skills
- Recruiting
- Talent
- ++

Spend Analytics

- Spend Control Tower
- Procurement analysis
- Supplier risk analysis
- Contract
- Management
- Consolidated Spend analysis

Customer Analytics

- Customer Data Platform
- Customer
 Management
- Sales planning & analysis
- Stock forecasting

Costing Procurement Manufacturing

Supply Chain

Analytics

• ++

Flip a Switch for Analytics

ANALYTICS

ON

0

Insight apps provide:

- LoB users with ready-to-use insights, to improve decision making and take action on critical business signals.
- Built by SAP utilizing decades of industry and domain experience.

Insight Apps - Working Capital



Working Capital

Available

CostCenter



Overview Documentation

Category: Finance

Version: 1.0.0

Details

Manage by SAF

Data Products (30)

Name	Description	
BillableControl	The billable co	
BillingProcessDocument	A document cr	
BusinessArea	Organizational	
CashFlow	The Cash Flow	
Company	A Company is	
CompanyCode	A company co	
ConsolidationChartOfAccounts	A consolidation	
ConsolidationSubitem	A Consolidatio	
ConsolidationUnit	The smallest e	
ControllingArea	A Controlling A	
ControllingObject	Identifier of the	
CostAnalysisResource	A cost analysis	

CostCenterActivityType	A cost center activity type is a	43	1.0.0	
Country	A country is a coded representa	32	1.0.0	
Customer	A business partner to whom ma	47	1.0.0	
FinancialPlanningEntryItem	Product	A product is a good that contrib	28	
FiscalYear	ProfitCenter	A profit center is an organizatio	33	
FunctionalArea	Project	A project is a business operatio	63	
GeneralLedgerAccount	PurchasingOrganization	An organizational unit in Logisti	42	
HANACurrency	SalesDocument	A document that represents a b	17	
HouseBank	SalesMasterData	Collection of Sales Master Data	19	
InternalOrder	SalesTaxType	A Sales Tax Type is a coded rep	. 36	
JournalEntryCodes	Segment	Division of a company for which	. 31	
JournalEntryHeader	ServiceDocument	A service document is a docum	28	
JournalEntryItemCodes	ShippingPoint	A shipping point is a coded rep	30	
Ledger	StorageLocation	A storage location is a coded re	19	
OperatingConcern	Supplier	A business partner who provide	17	
OperationalAccountingDocument	SupplierConfirmation	Reference Document Type is a	27	
PaymentMethod				
PaymentTerms	Payment terms is a coded repr	62	1.0.0	
Plant	A plant is an organizational unit	27	1.0.0	

A cost center is an organization... 12



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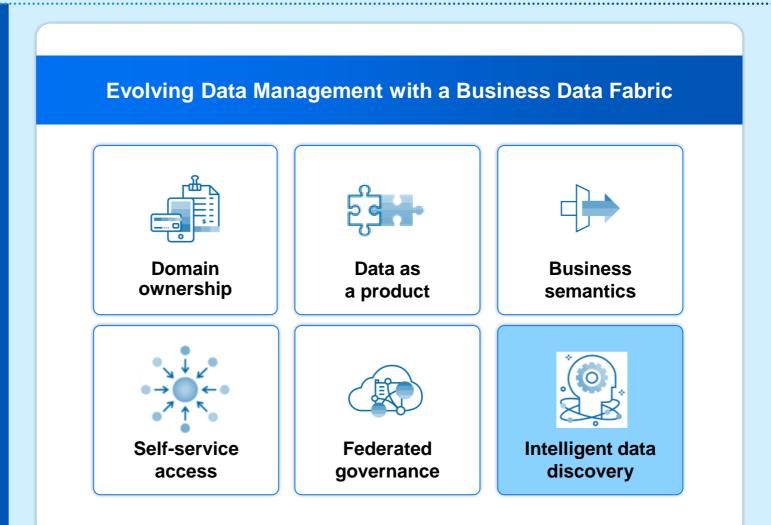
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Unlock the full potential of your data with SAP Databricks

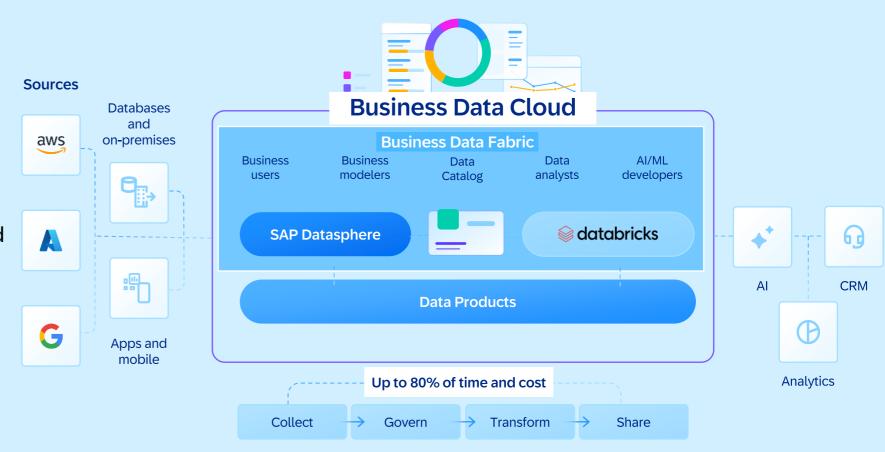


Recognized as a **market leader** in unified data and AI/ML platforms

Fully managed and embedded within SAP Business Data Cloud

Brings industry leading data engineering, data science, advanced analytics and SQL serverless capabilities to SAP's Business Data Fabric

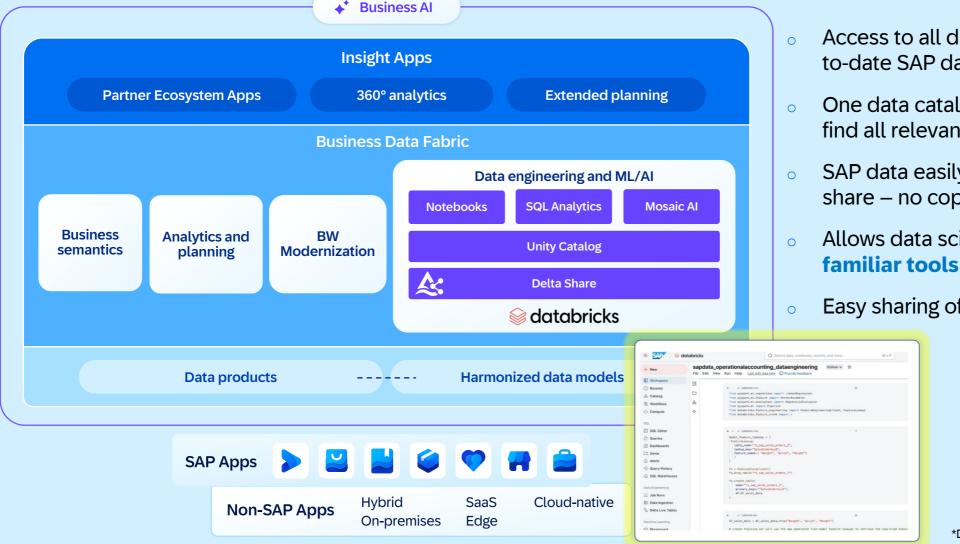
Optimized to work with SAP data products with **zero-copy data exchange**



Unify data with zero copies leveraging Delta Share



SAP Databricks enables secure and seamless data sharing between SAP and non-SAP data



Access to all data products - trusted, upto-date SAP data

- One data catalog allows easy access to find all relevant data quickly
- SAP data easily accessible via delta share – no copying of data
- Allows data science roles to work with
- Easy sharing of AI/ML insights



Now let take a look at what this all adds up to

From trusted data to meaningful AI





Thank you









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Capabilities gained using SAP Databricks



SAP Databricks

Unify data with zero copies

Leverage delta sharing to connect and blend data without the need for or complex ETL or data copies

Delta Share

Deliver trusted data products

Access curated SAP managed data products
Build derived data products and publish to catalog

Unity Catalog

Develop with procode tooling

Develop pro-code data engineering & custom AI/ML. Write spark pipelines to blend SAP and 3rd party data

Databricks Notebook

Analyze data at scale, on-demand

Analyze data at scale ondemand with SQL, for faster, data-driven decision-making

Databricks SQL

Build custom AI and ML

Build governed and secure custom AI/ML solutions, leveraging trusted, reliable, AI-ready data

Data Science & Mosaic Al

Simplify and fully integrate your data landscape

Insights Apps leverage curated data products for the datadriven enterprise





Without Insight Apps

- Define required measures
 - Look for existing data
 - Create models to harmonize raw data
 - Decide how to virtualize the data
 - Create interactive dashboard
 - Map models to dashboard
 - Create roles with user rights
 - Assign roles to users

With Insights Apps

Step 1: Install an Insight App

Step 2: Assign roles to users

Consume Data!



up to 90% reduction in time to implement a new use case using data product(s)¹



up to **30% decrease in TCO** by leveraging data
products applying to multiple
use cases¹



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Map models to dashboard

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Data needs context for authoritative decision-making

Innovation has happened in silos

Data, especially metadata, has been removed from its context

There's been a fundamental error—focusing solely on technology rather than the data

