



# SAP Business Unleashed Innovation Day

When you connect everything, you  
can achieve anything.



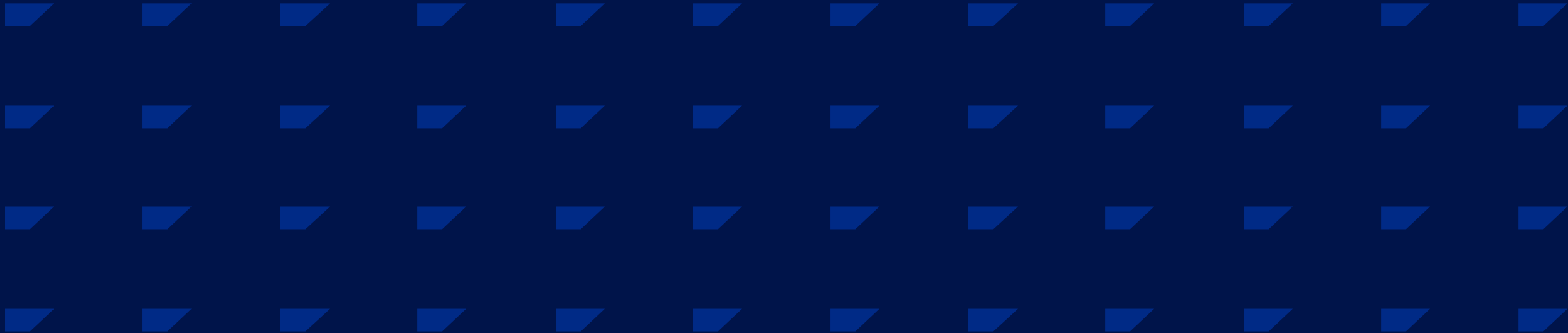
Business Data Fabric - Five Steps to a Business Data Fabric Architecture

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# Agenda

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

# The Value of a Business Data Fabric





# 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





# Applications, AI, and planning require context from quality, trusted data



Business context and logic, especially metadata, has been removed from business data



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

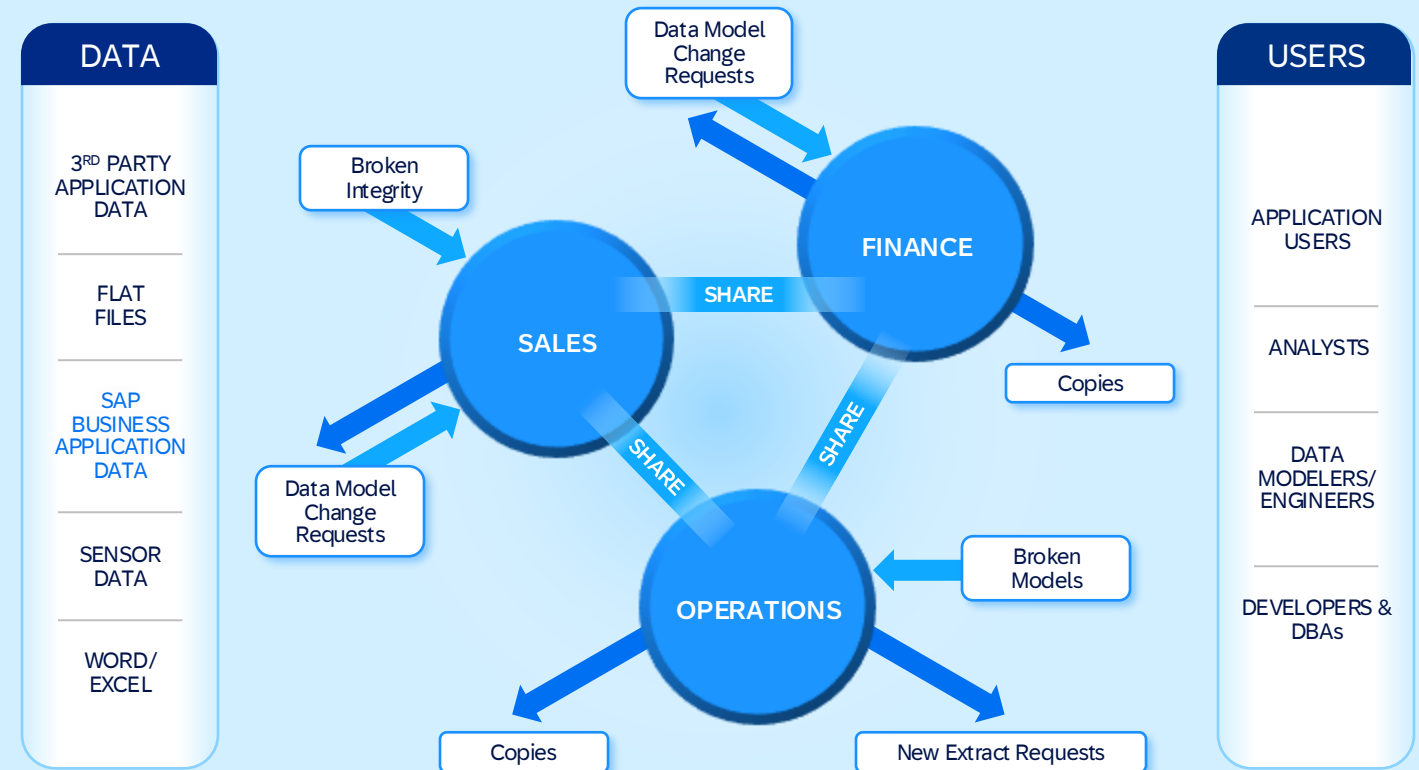


The majority of business users lack data context necessary for data to be useful

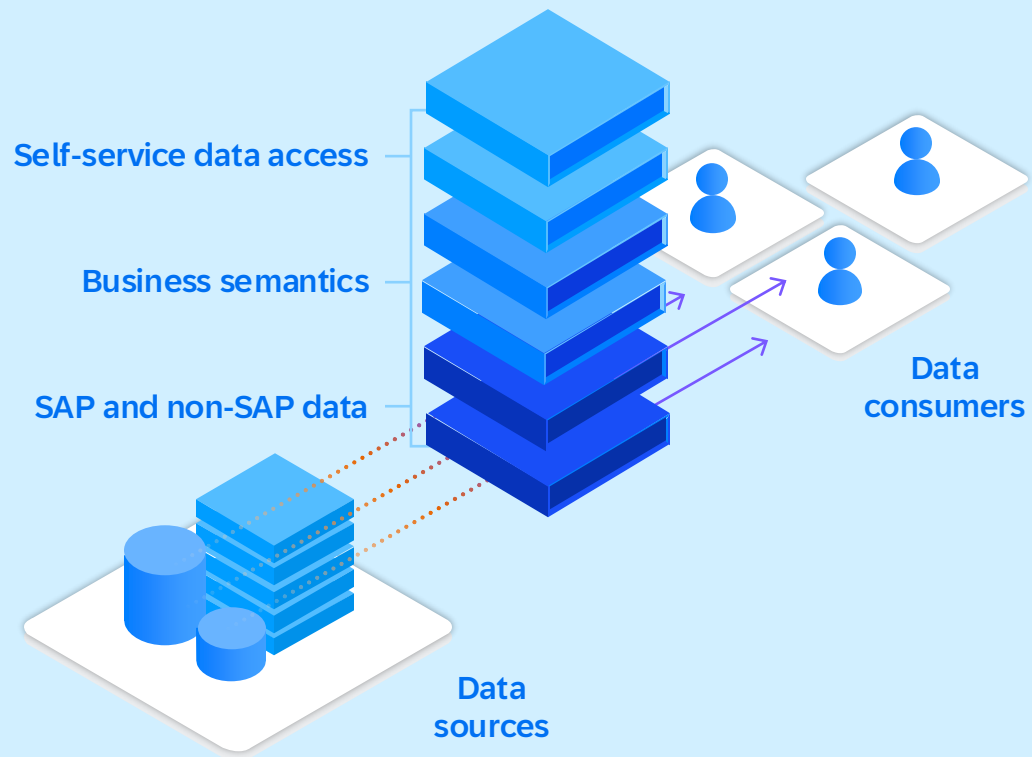
# Extracting data from your landscape removes its context and meaning



- 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

# SAP Datasphere is the foundation for a business data fabric architecture



**Data consumers**

**Planning and analytics**

**Intelligent data apps**

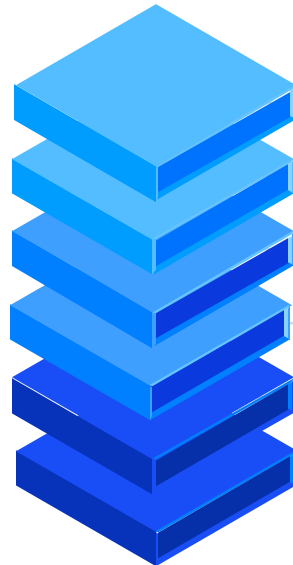
**Data science**

**SAP Datasphere  
running SAP BTP**

Security

Access control

Availability



**Self-service data access** | Virtual data products

**Data discovery** | Business content, data marketplace, recommendations

**Orchestration** | Data transformation and data ops

**Processing and persistency** | Warehousing, business semantics (analytic/relational models), knowledge graph

**Data governance** | Metadata management, catalog, lineage, privacy, quality

**Data ingestion** | Data replication, data federation, real-time, application integration

**SAP and non-SAP data**

**Applications**

**On-premises  
Data Warehouses**

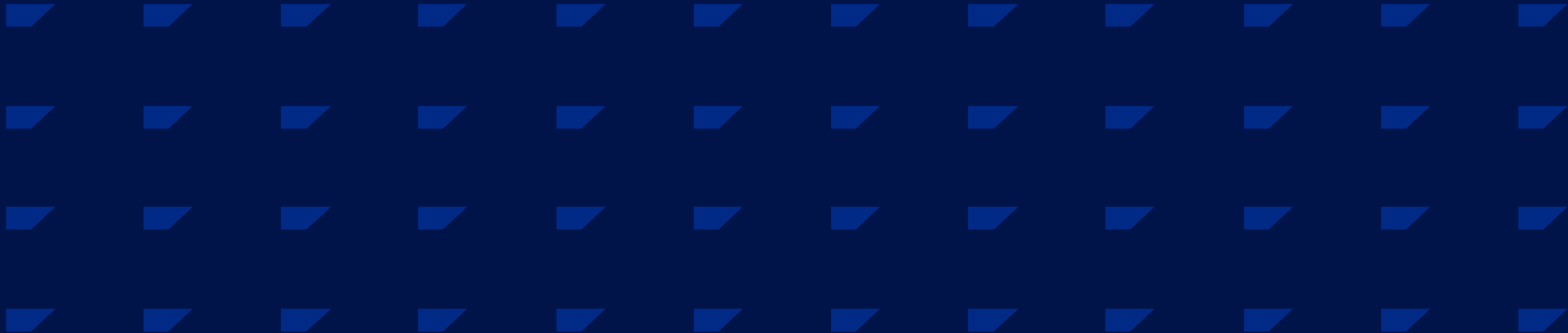
**Cloud Data Warehouses  
and Lakehouses**

**Relational  
Databases**

**Unstructured/  
Semi-structured Data**



# How SAP Business Data Cloud strengthens a Business Data Fabric

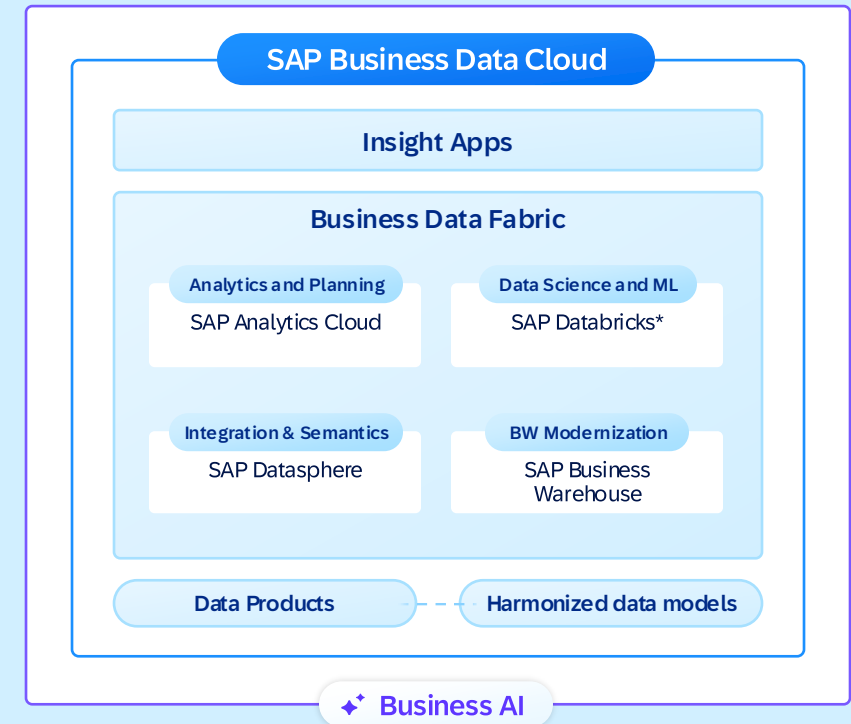
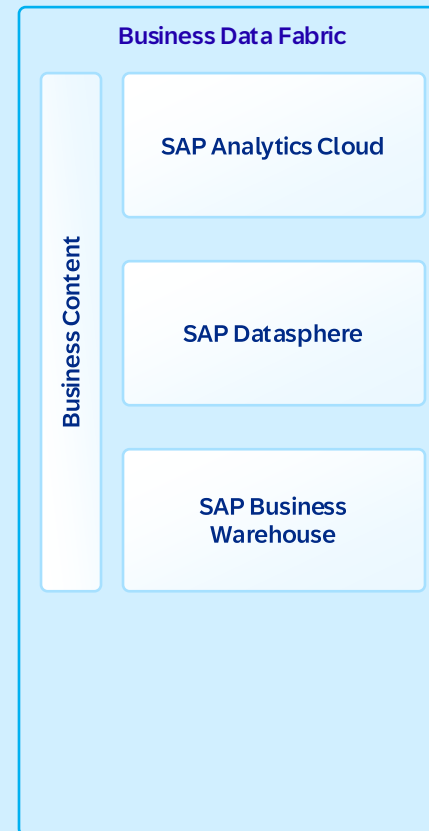


# Creating additional value to the Business Data Fabric by extending the services



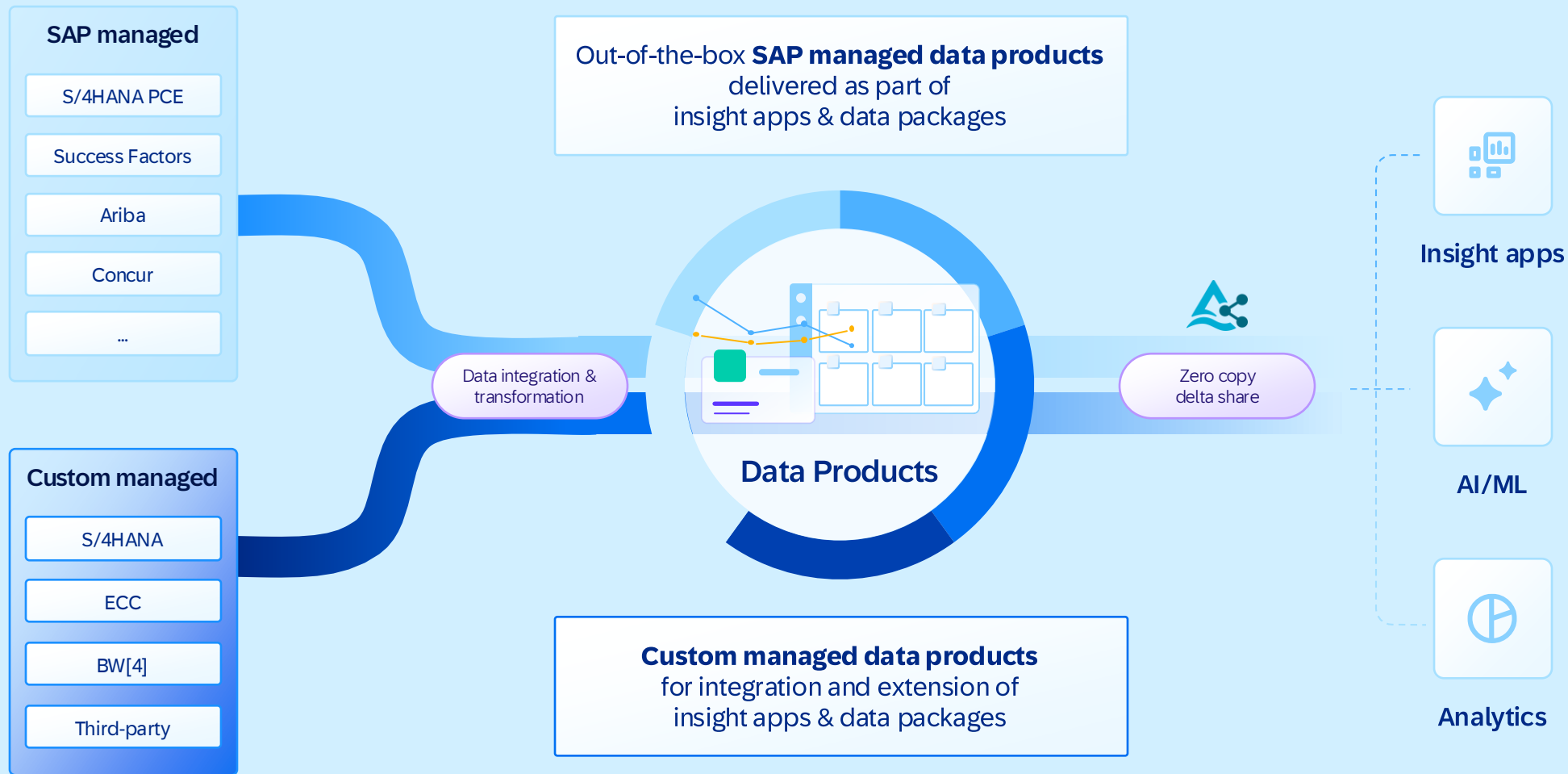
## Enhance the use cases to create additional business value

- **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 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
- **SAP BW modernization**  
take your SAP BW or BW/4HANA investment along and enable custom data products on your BW data
- **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



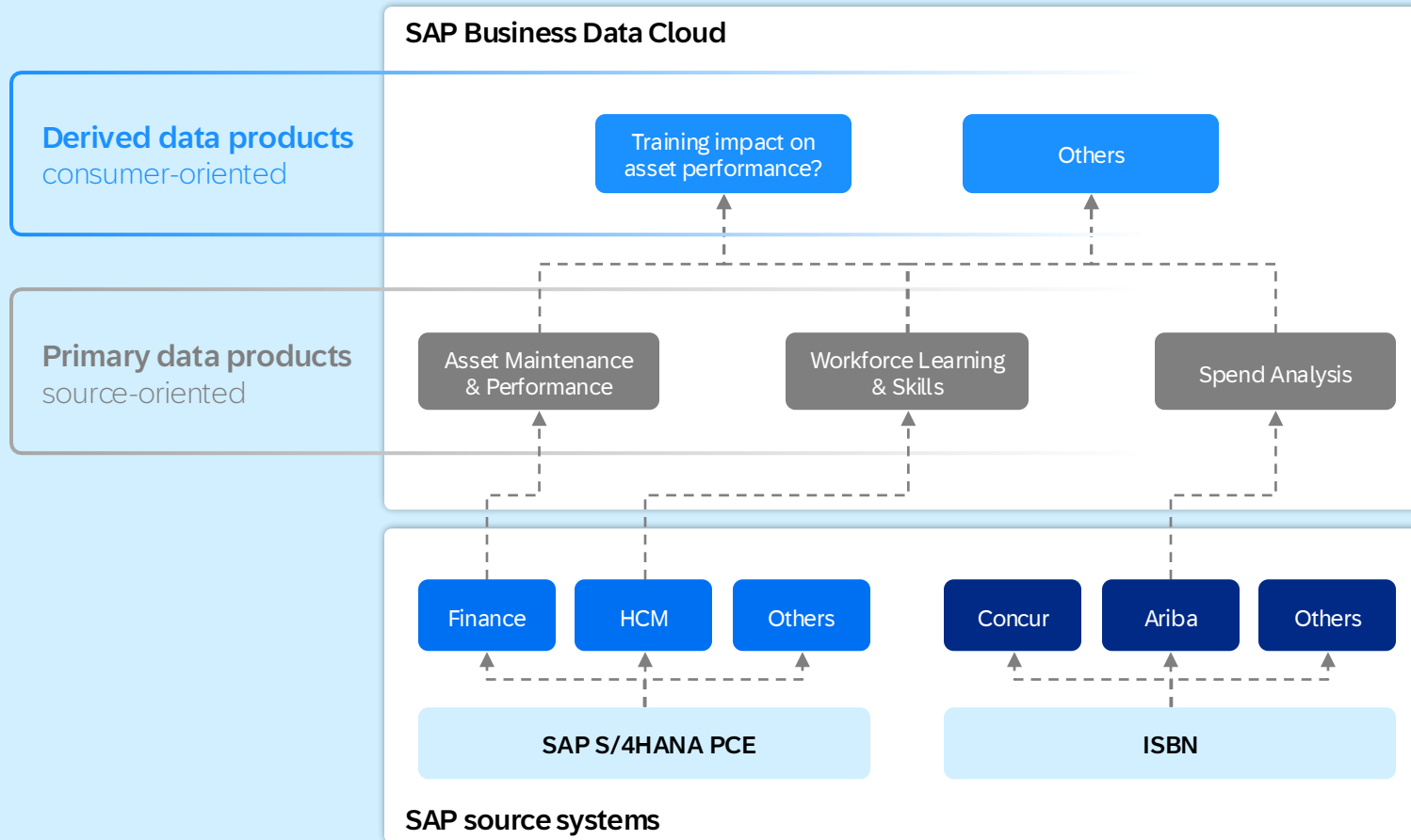
\*SAP Databricks will be part of GA version

# Establish a Data Product Economy to serve multiple use cases



# Organize SAP data through data products

A service to minimize time to insight

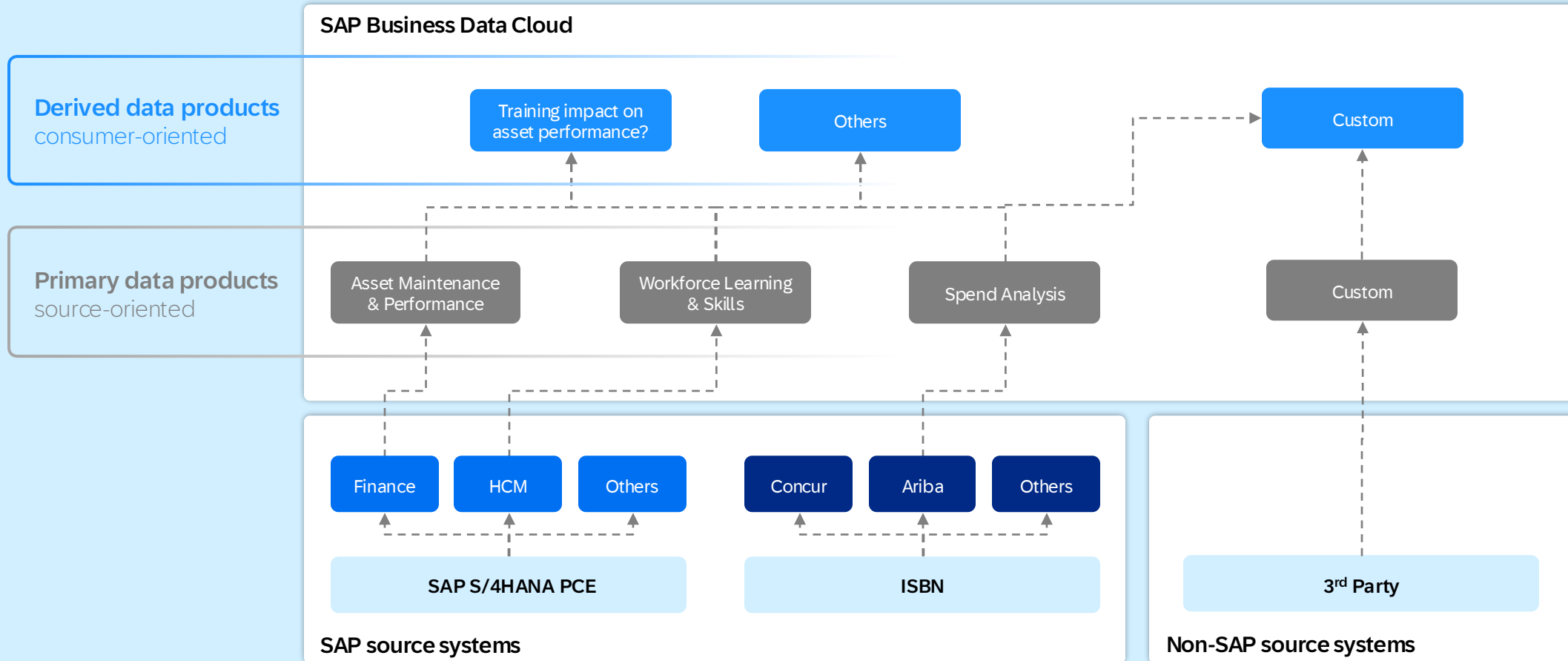


## Primary and derived data products

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



# Unlock the full potential of your data with SAP Databricks

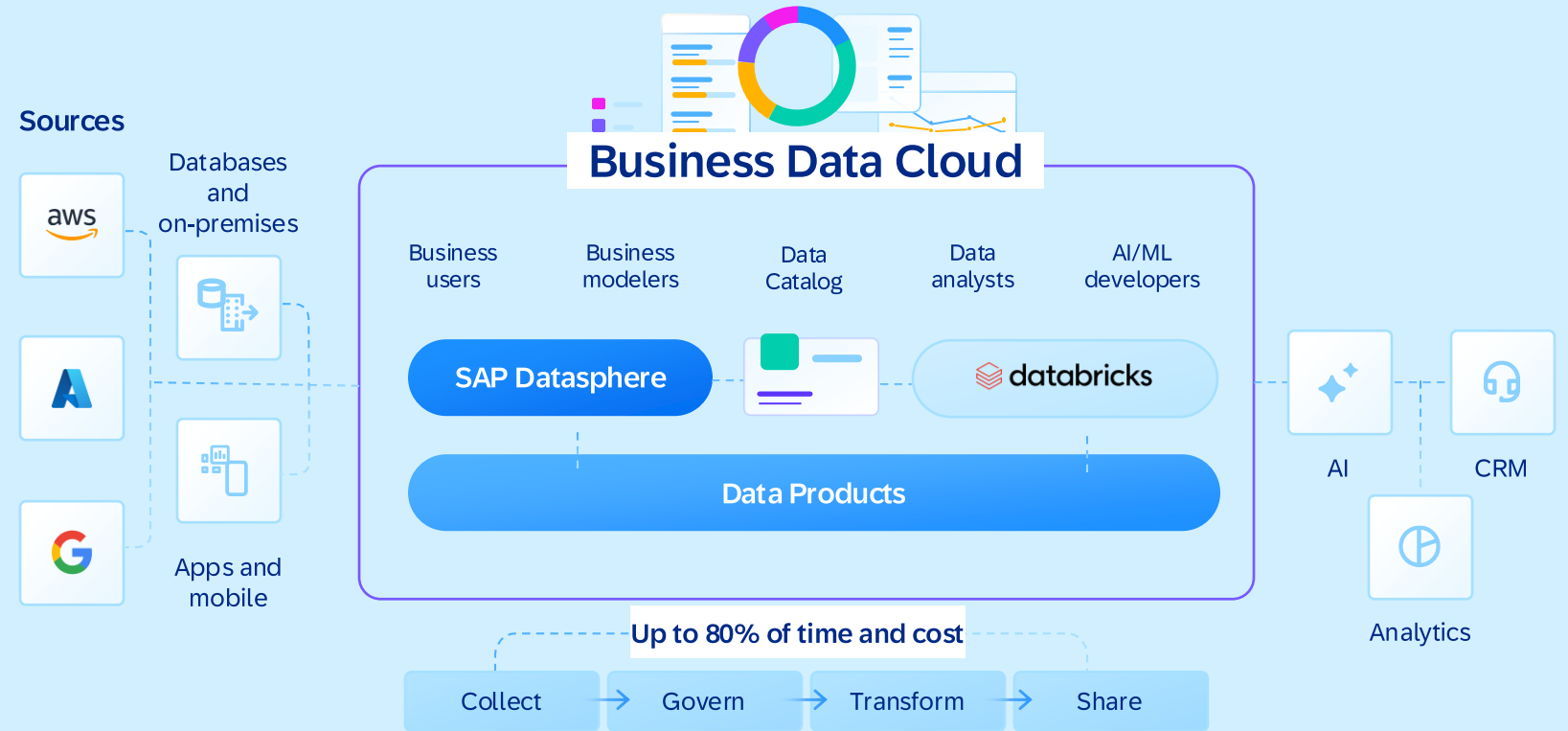


Recognized as a market leader in unified data and AI platforms

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



# 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 pro-code tooling

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

Databricks Notebook

### Analyze data at scale, on-demand

Analyze data at scale on-demand 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 AI

Simplify and fully integrate your data landscape

# Unify data with zero copies leveraging Delta Share

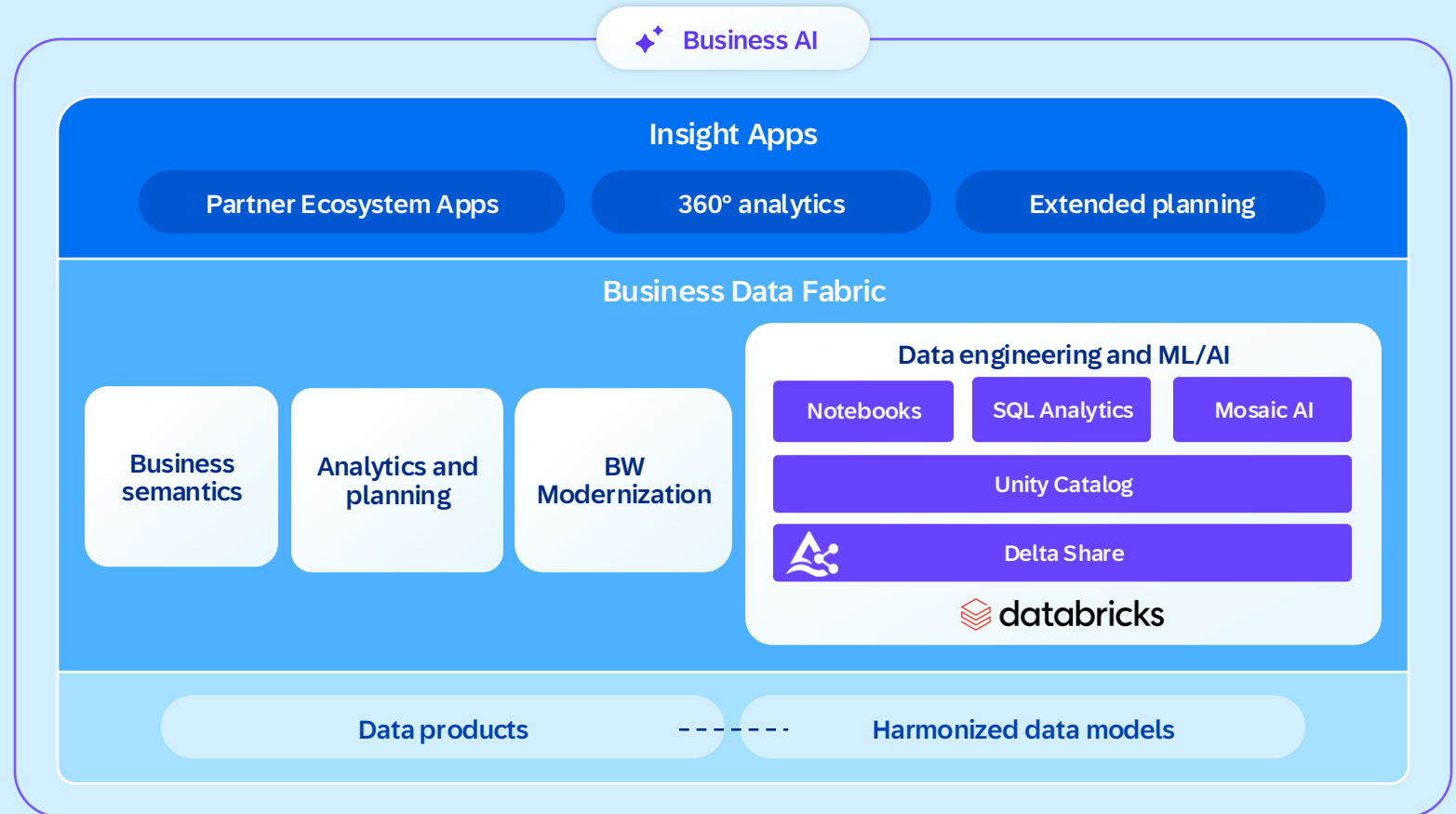


SAP Databricks enables secure and seamless data sharing between SAP and non-SAP data

Point and click interface to enable zero copy sharing between data scientists and data engineers, eliminating the need for complex and time-consuming ETL processes

Seamlessly integrate SAP and external data of all types, creating a unified ecosystem for smarter, more informed decision-making

Leverage built-in authentication within the Delta Share protocol to securely create data shares directly from SAP Business Data Cloud



SAP Apps



Non-SAP Apps

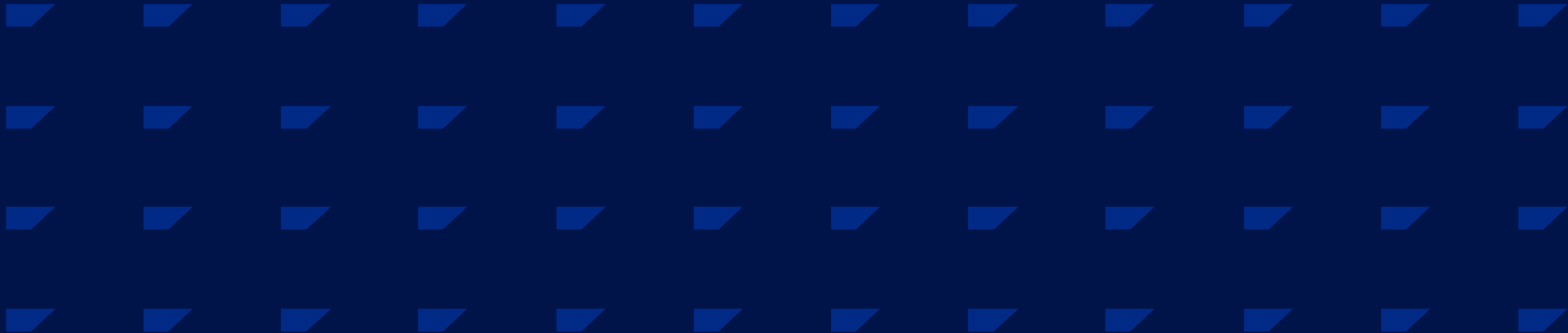
Hybrid  
On-premises

SaaS  
Edge

Cloud-native



# How to Build Your Future on a Business Data Fabric



## 5 Step Framework towards a Business Data Fabric



- 1. Data ingestion:** The first step in building a business data fabric 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.

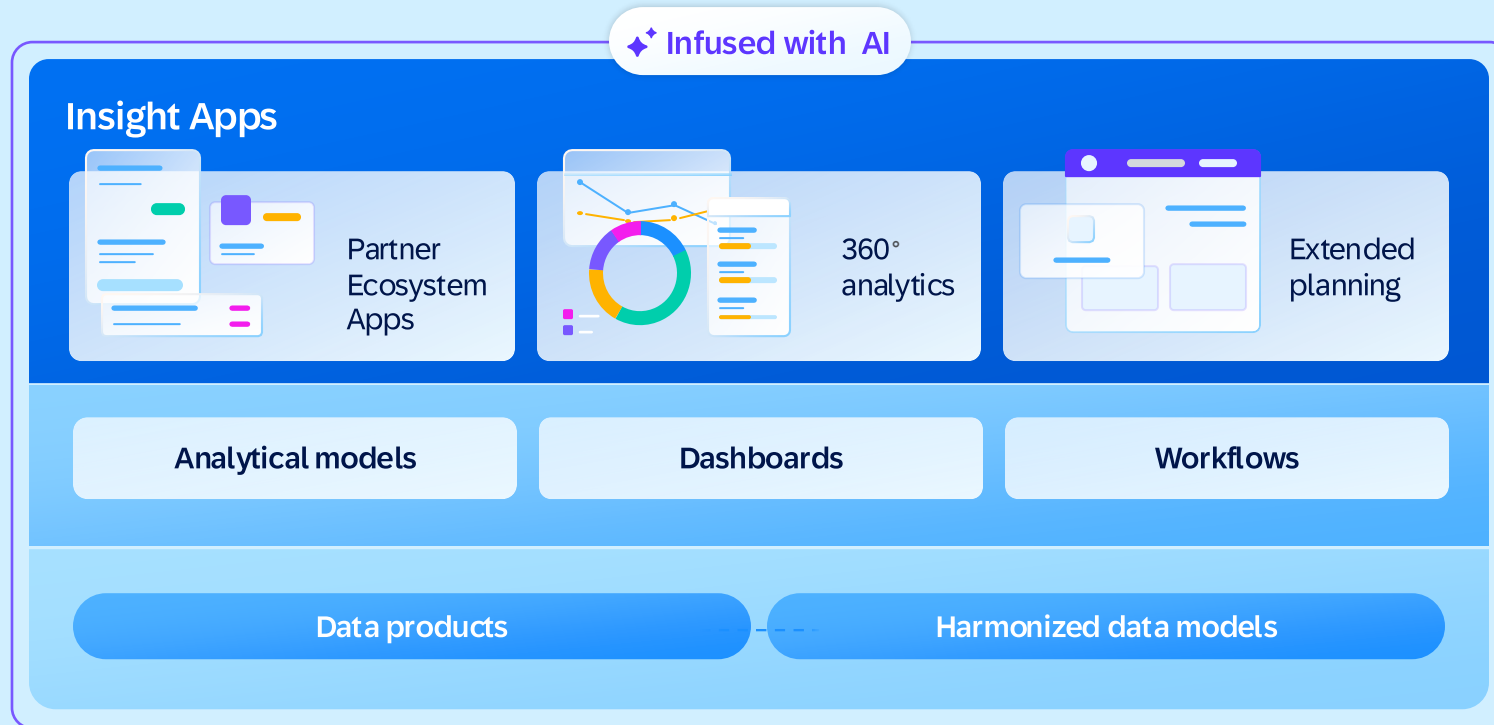
## 5 Step Framework towards a Business Data Fabric



**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. It better ensures data is presented in business-friendly terms and contexts, making it simpler for data consumers to interpret and use the data for their specific use cases.

# Insight Apps



Managed  
by SAP

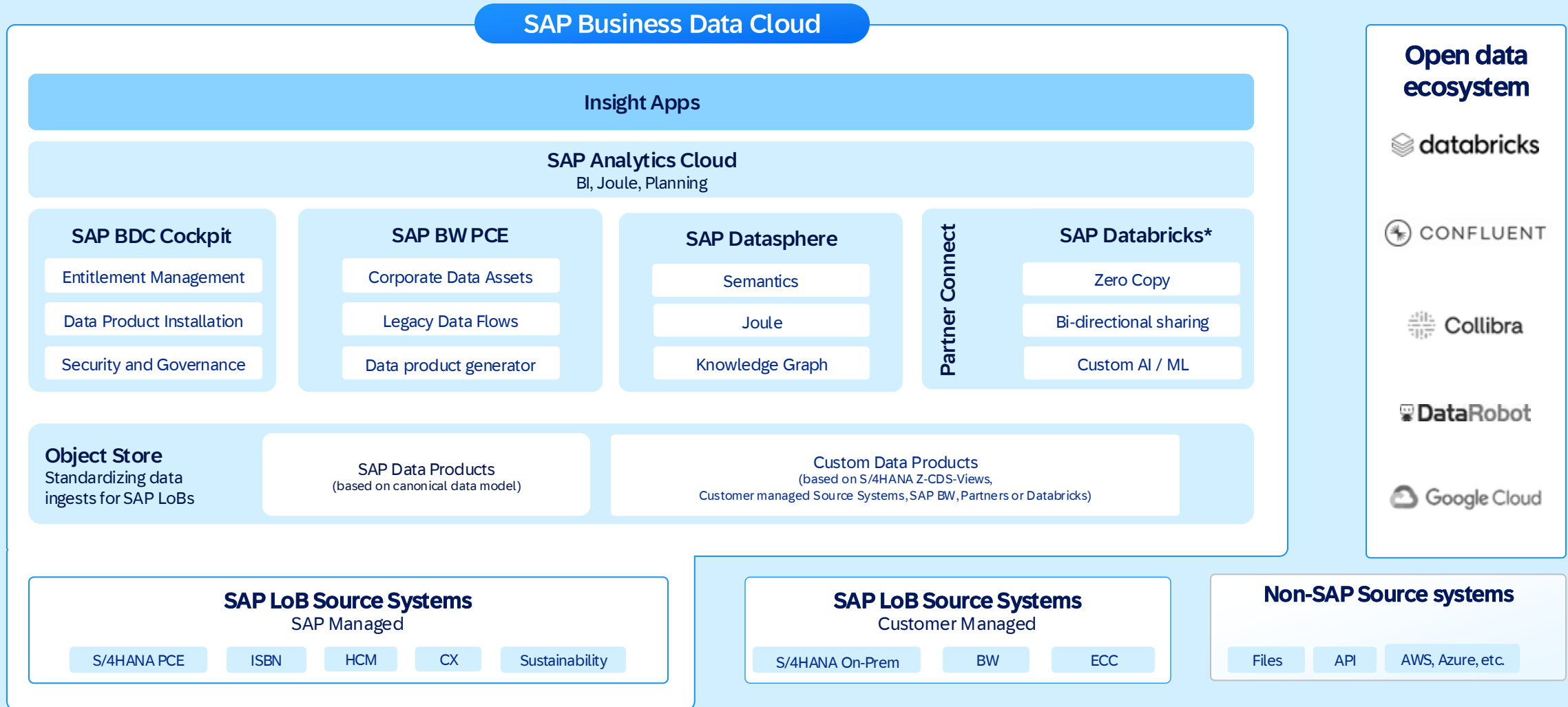


## Flip a Switch for Analytics

### Managed by SAP

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

# SAP Business Data Cloud components overview



\*SAP Databricks will be part of GA version

**Ar**

# Thank you



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