

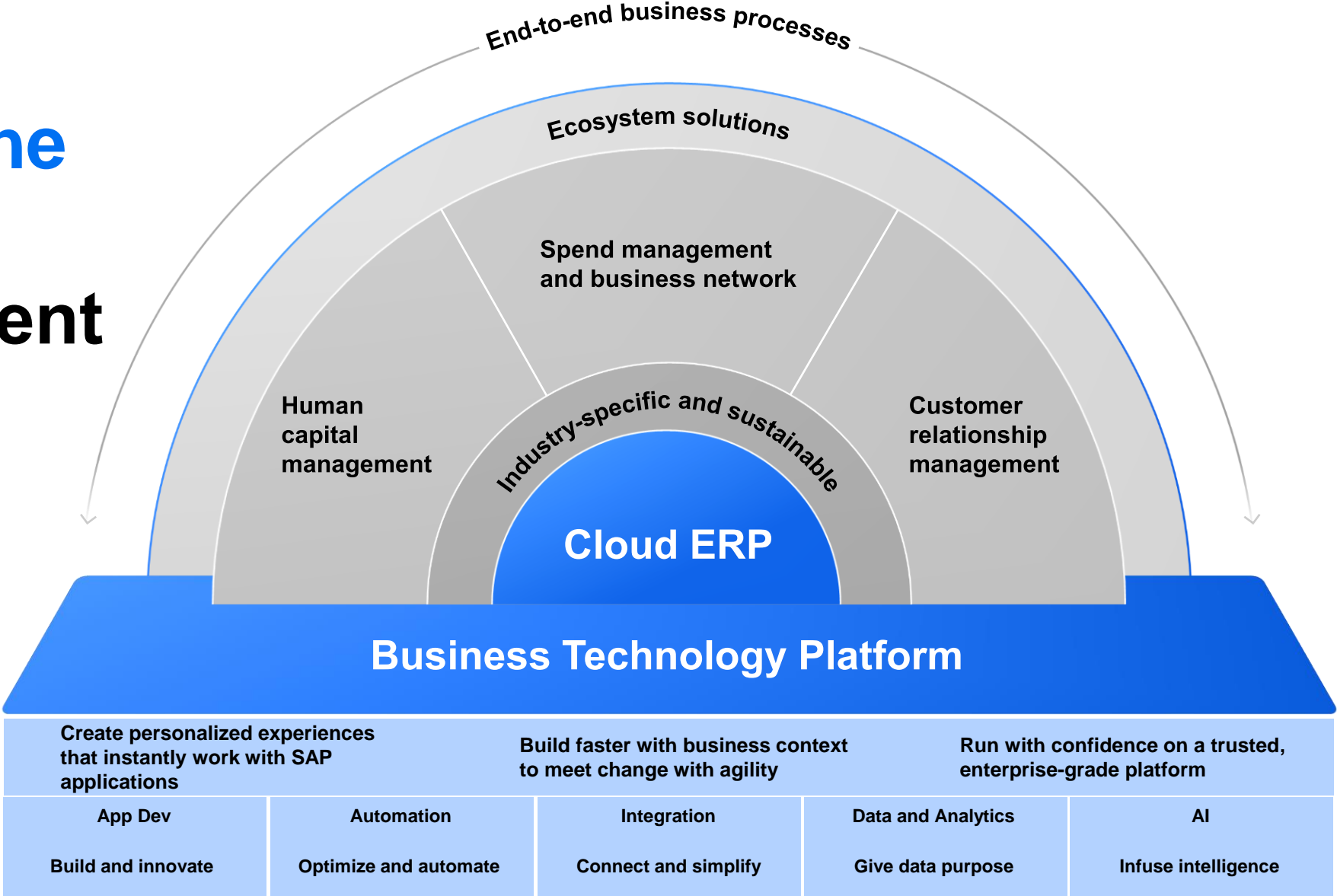
SAP Datasphere

Unleash the power of business data

Florian Neukirch, SAP

Public

SAP BTP is the foundation of the Intelligent Sustainable Enterprise



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

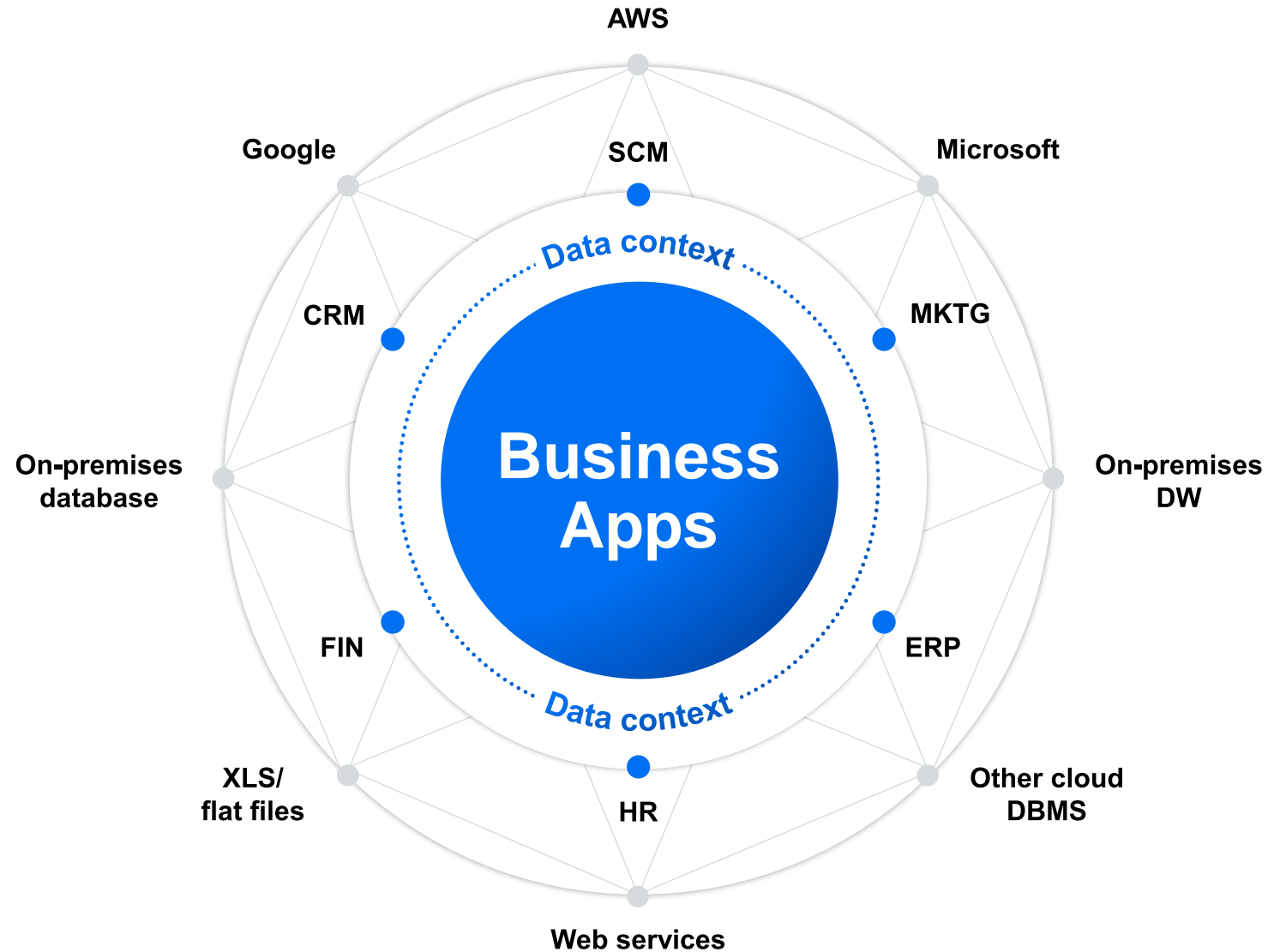


(Multi-) cloud brings new opportunities and challenges

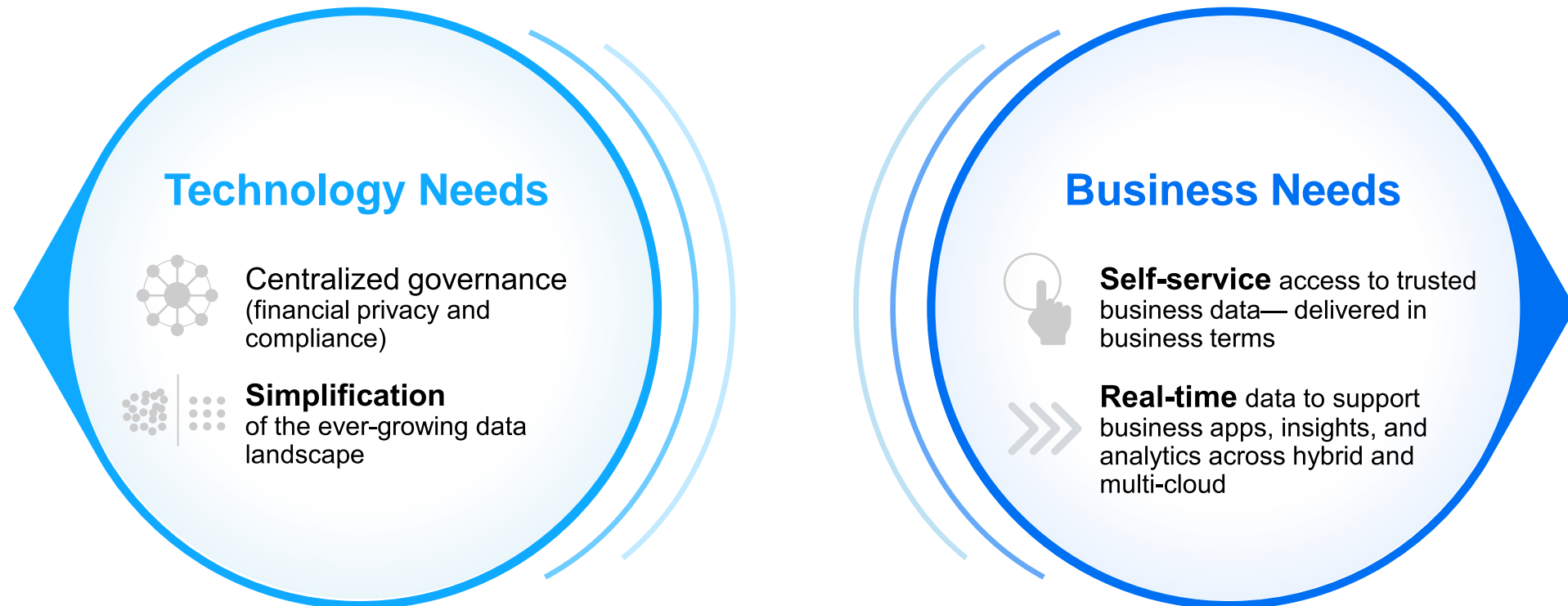
New data sets spawn new projects

On-premises sources remain

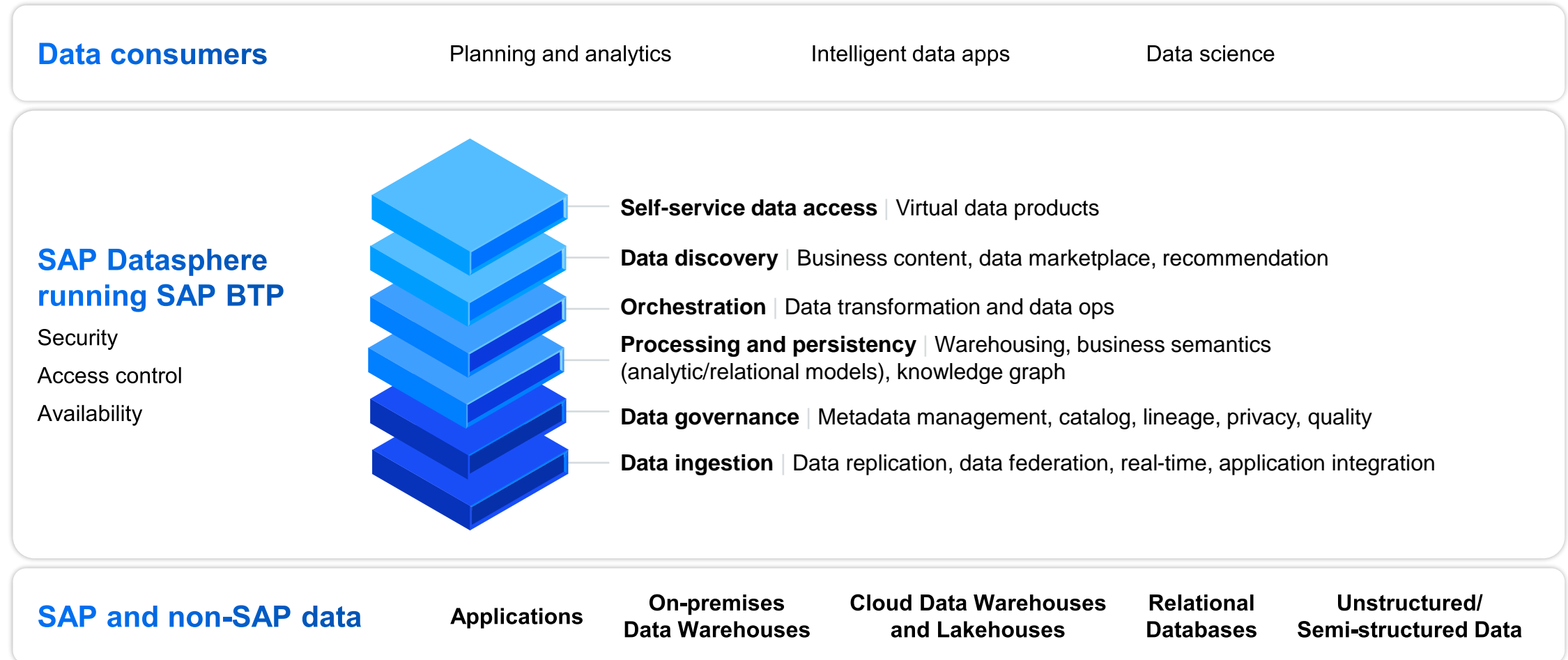
Complexity has increased, shifting governance and integration work back to customers



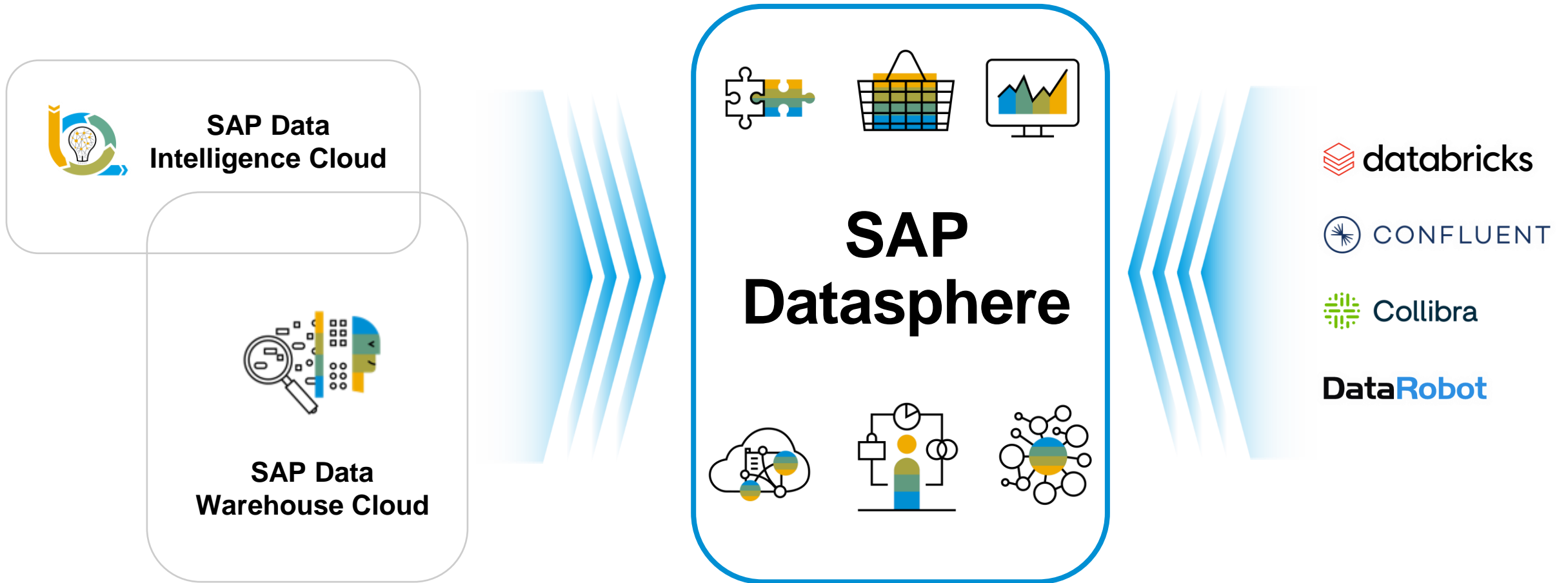
Universal yet opposing data needs for business and technology stakeholders



SAP Datasphere is the foundation for a business data fabric architecture



SAP Datasphere as a **business data fabric**



SAP Datasphere is the foundation for a business data fabric architecture

Existing SAP Data Warehouse Cloud customers got **automatically moved** to SAP Datasphere and benefit from the new functionality



SAP Connectivity
Connecting SAP sources
with business context



Openness
Multi-cloud support &
open interfaces



**Modern Data
Exchange**
SAP Data Marketplace



**Self-Service
Collaboration**
Business user modeling
& Space concept



**E2E Analytics &
Planning**
SAP Analytics Cloud
Integration



**Investment Re-Use
& Extension**
SAP BW Bridge



**Out-of-the-Box
Use Cases**
Business Content by
SAP & Partners



**Cloud-based Data
Replication**
Replication Flow

NEW



**Efficient Semantic
Modeling**
Analytic Model

NEW



**Data Governance
Catalog**

NEW

SAP Datasphere **Analytic Model**

Multi-dimensional and semantically rich analytical modelling to answer business questions easier, faster and more efficiently



Model

The Analytic Model allows **multi-dimensional and rich** analytical modelling with less effort to answer **business questions** easier, faster and more efficiently



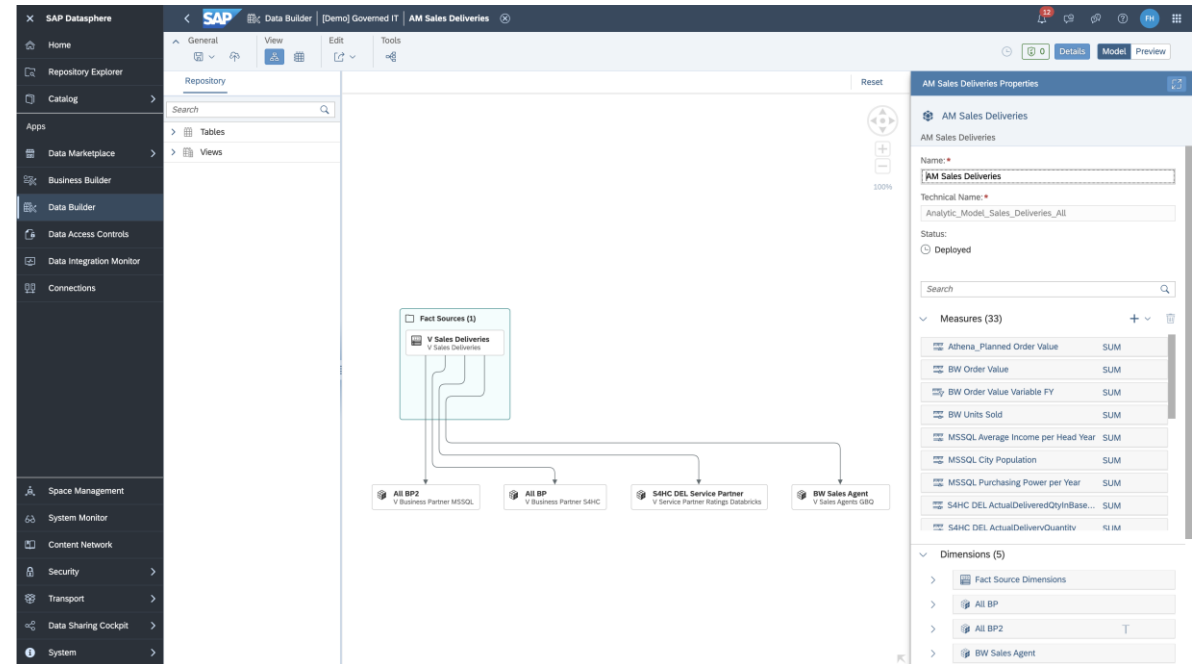
Preview

The Analytic Model data offers an **analytical preview** incl. filtering, pivoting, hierarchies, etc. to analyze data directly in SAP Datasphere



Full integration with SAP Analytics Cloud

The Analytic Model in SAP Datasphere is also **seamlessly integrated** with SAP Analytics Cloud to analyze data in a hassle-free manner.



SAP Datasphere **Catalog** enabling governance

Unlock metadata integration and crawling with SAP sources while having tight integration to 3rd parties.



Discover

Discover data (*crawl, profile, organize, link, and enrich*) and make data **accessible** (*browse, search*)



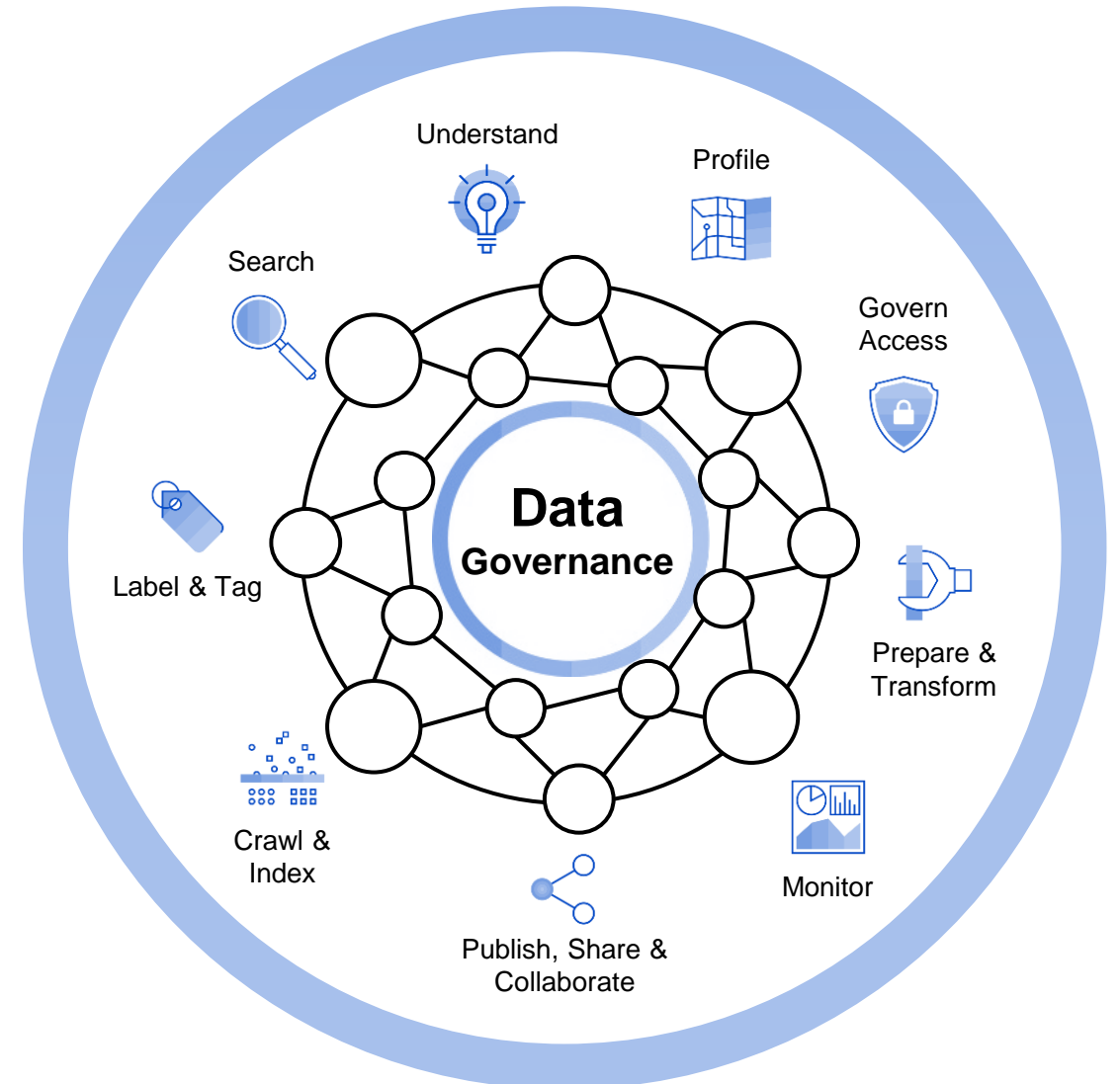
Organize

Classify, organize, and understand data (*location, attributes, quality, lineage, sensitivity*)



Curate

Enforce **centralized authorization** and **security** for data orchestration, and control **data quality standards**



SAP Datasphere Replication Flow

Replication Flows offer a cloud-based replication tool in which for cloud-to-cloud based replication scenarios on premise components are not needed anymore (e.g. Data Provisioning Agent)



Mass Data Replication

Possibility to replicate **parallelized** data from supported **source systems** into supported **target systems**



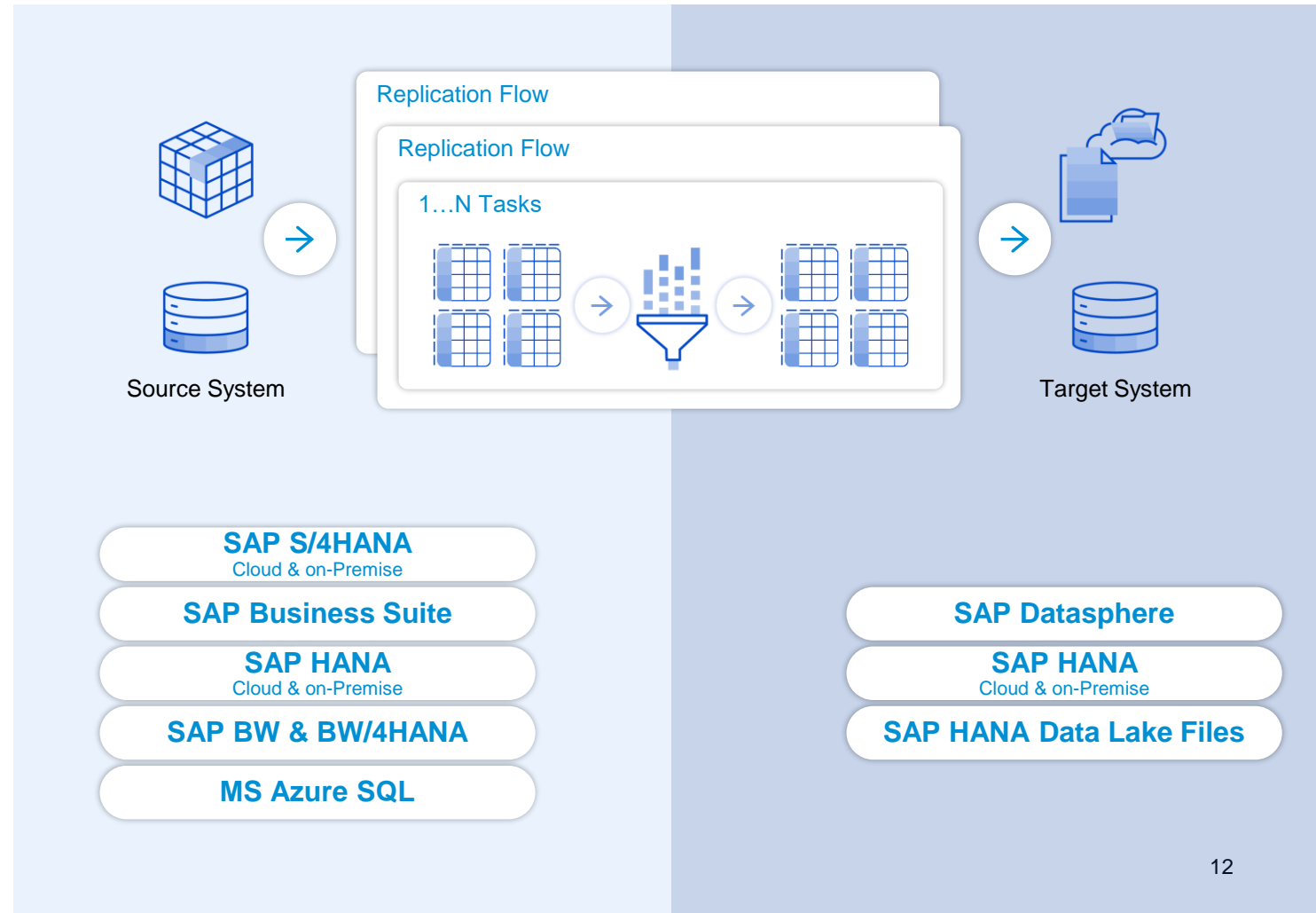
Integrated Monitoring

Overview of monitoring features within **integrated** monitoring application



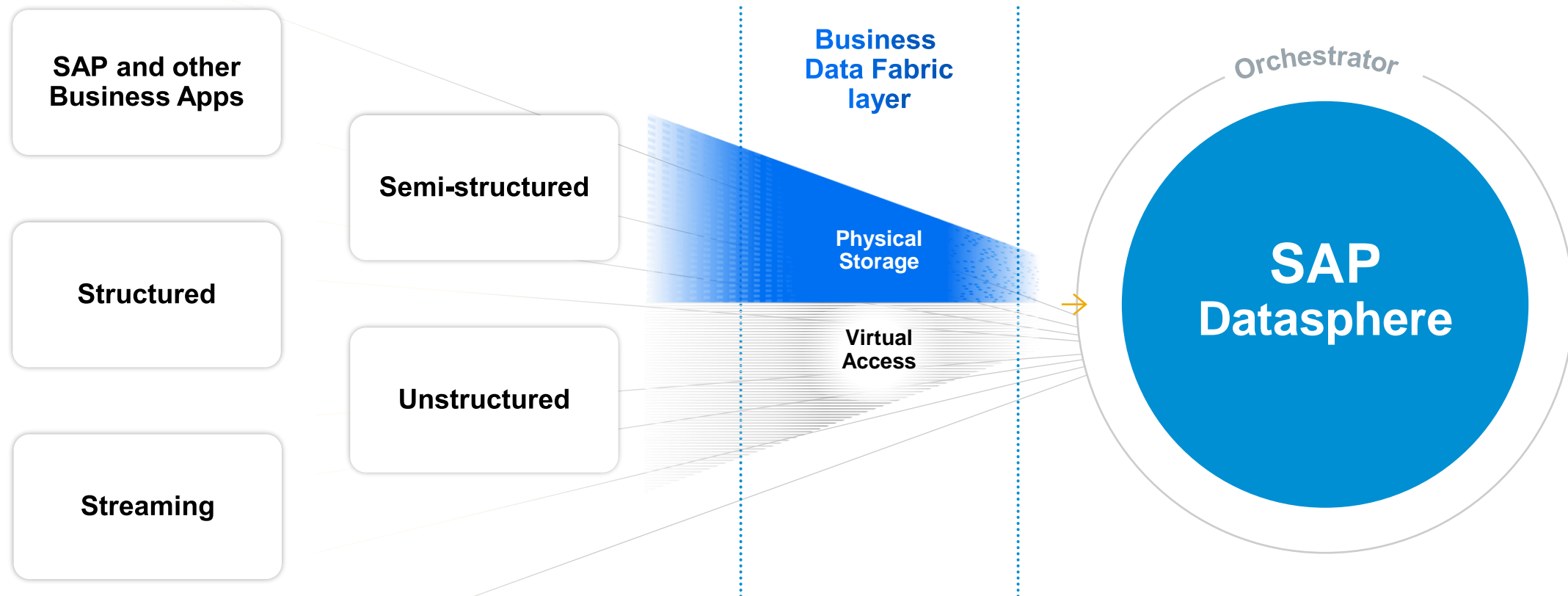
Capture changes

Support for **initial** data replications together with **delta** replications



Enrich all data projects

Virtually access or physically store data from anywhere



Choose between SAP Datasphere data federation or data replication capabilities to combine sources and harmonize heterogeneous and real-time data

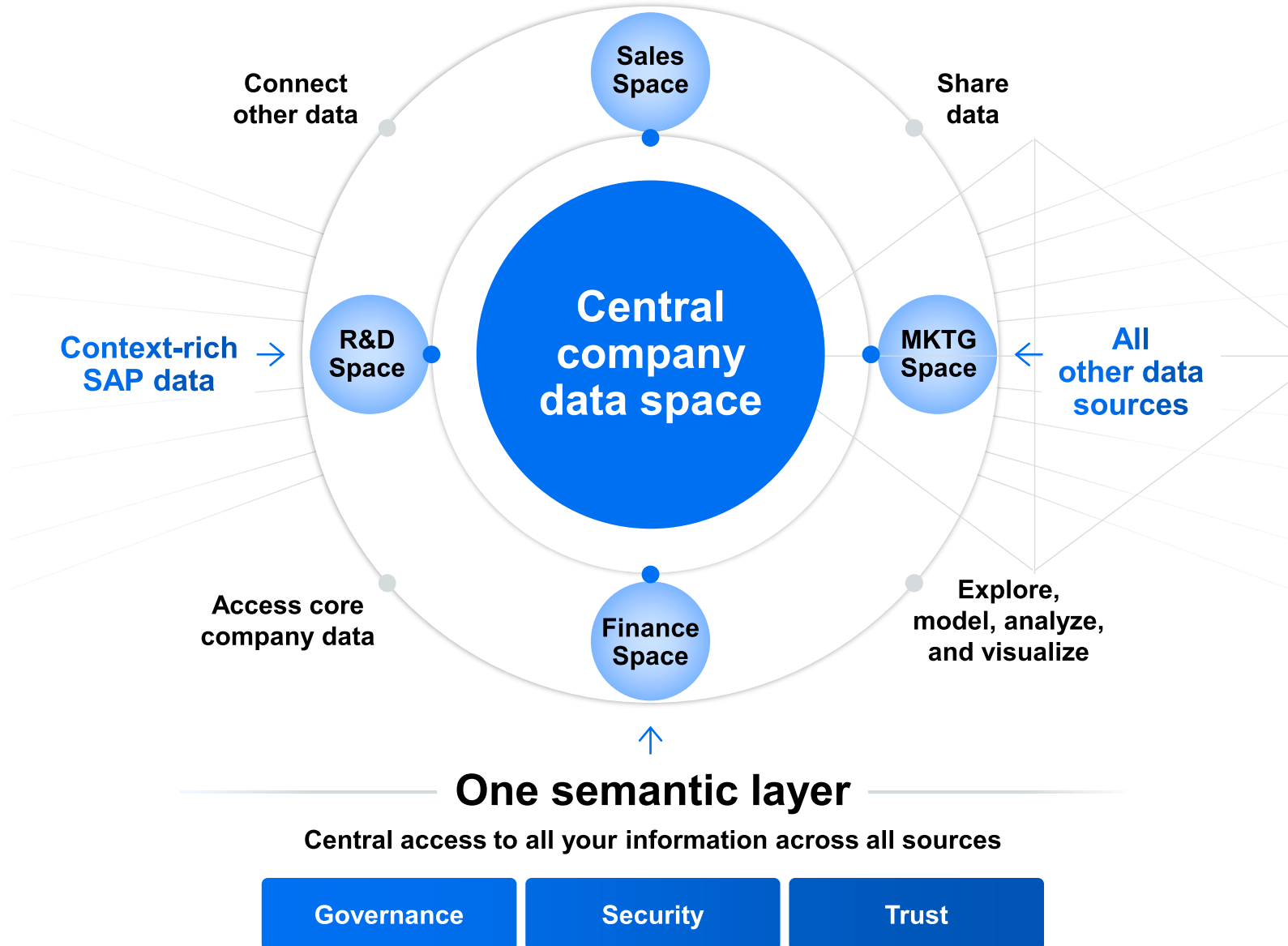
Simplify the data landscape

Enable self-service data access

Provide user-friendly access to data products that organize and manage data for different lines of business with SAP Datasphere Spaces

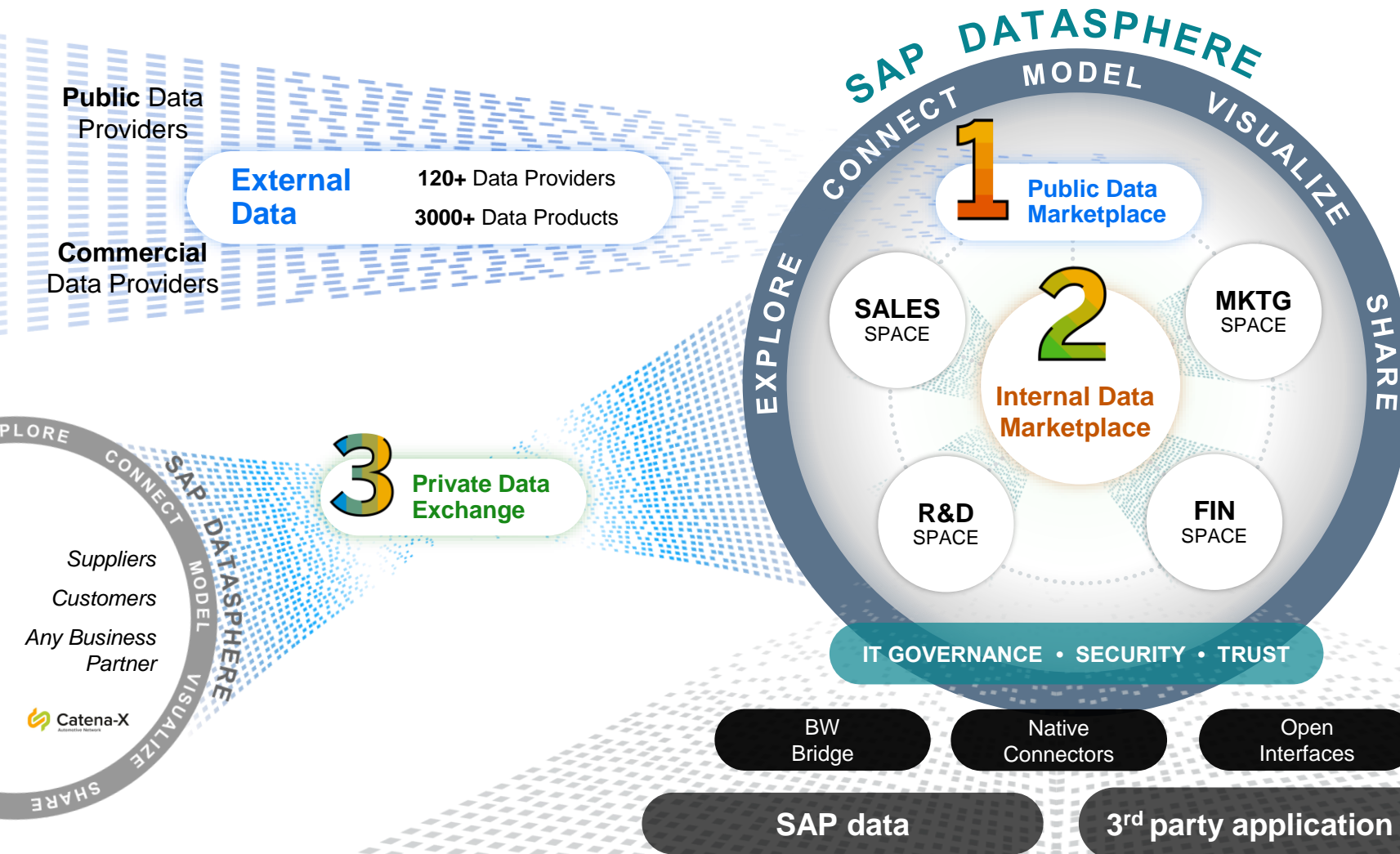
Implement powerful data preparation with complex transformations

Access data via SAP and non-SAP tools and open interfaces



Data Marketplace

Access to external & external data in clicks for better, faster & more scalable data collaboration



The Data Marketplace technology provides data sharing capabilities and processes to conduct the following use cases:

- 1 Public Data Marketplace**
Discover & connect external data products for instant usage in your space for harmonization with other (internal) data artifacts.
- 2 Internal* Data Marketplace**
Productize internal data assets for more scalable self-service and more effective adoption.
- 3 Private Data Exchange**
Exchange data with suppliers, customers and other business partners in private environment within or between tenants.

* According to the [Roadmap](#)

BW Bridge Capitalizes on Your Existing Assets & Skills

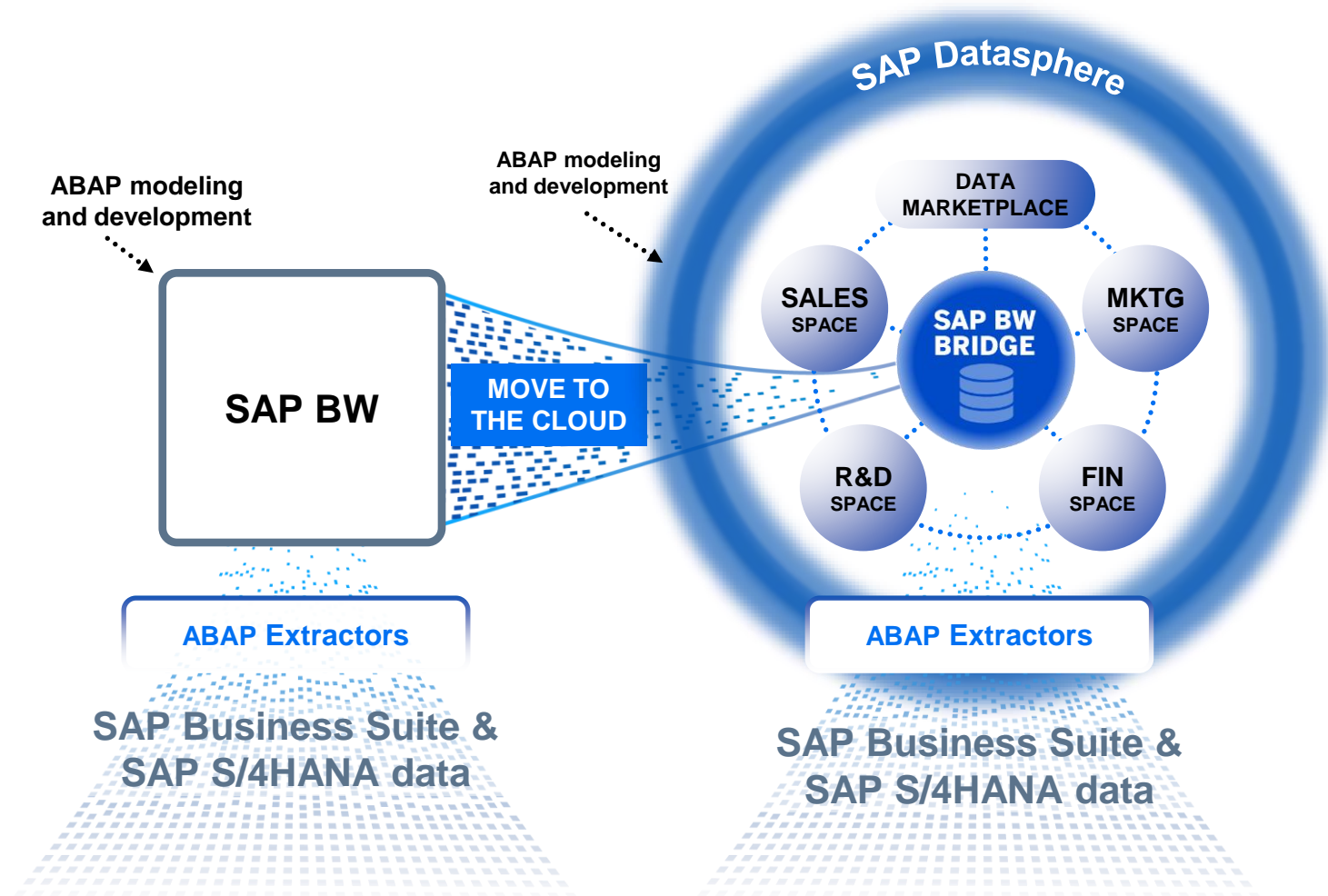
Reuse existing SAP BW investments for shorter time-to-value

Single query import

- Import single entities such as BW queries, info providers, or info objects from a BW bridge
- Model semantics in BW objects and reuse it in SAP Datasphere

Import wizard – semantic information reuse of bridge models

- Reusability of existing metadata and reduce modelling efforts
- Empower SAP Datasphere users to reuse existing semantics



Modeling for Everybody

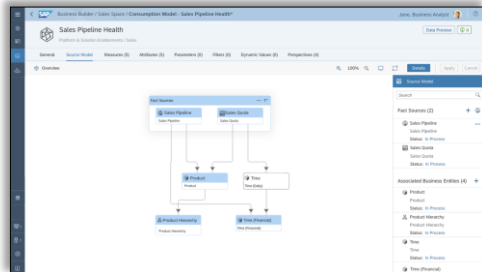
Business Analyst
No Code / Low Code



Developer / Power User
Pro Code

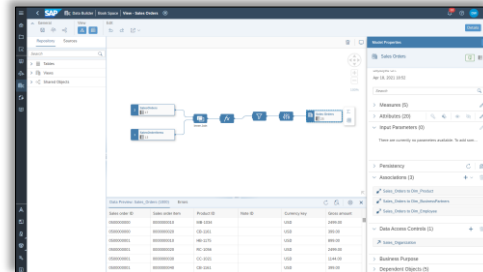
BUILT-IN EDITORS
modeling for all users

Business Modeling



- Allow for a greater degree of self-service
- Non-disruptive environment for business scenarios – independent from the data integration layer

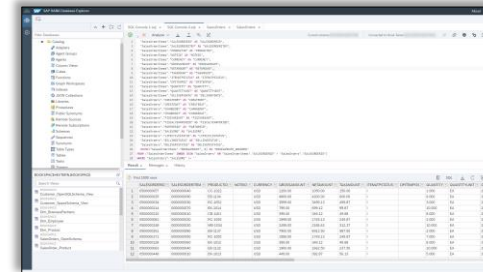
Graphical & Scripted



- Collection of no code/low code editors to support Graphical Modeling
- Model E/R-models, Tables, Views, SQL & SQL-Script Views
- Focuses on most-used modeling operators

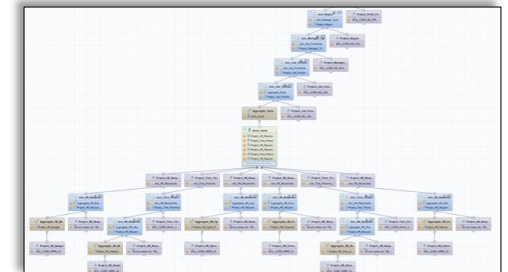
EXTERNAL EDITORS
integrated SQL Data Warehousing

Open SQL Schema



- Option to use SQL DDL & DML leveraging e.g. SQL Views, Tables, Procedures, etc.
- Leveraging existing SQL-tooling & skillset
- SAP Database Explorer

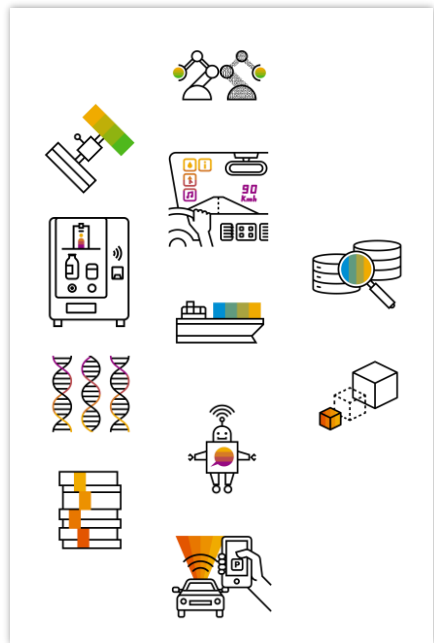
SAP HANA Deployment Infrastructure



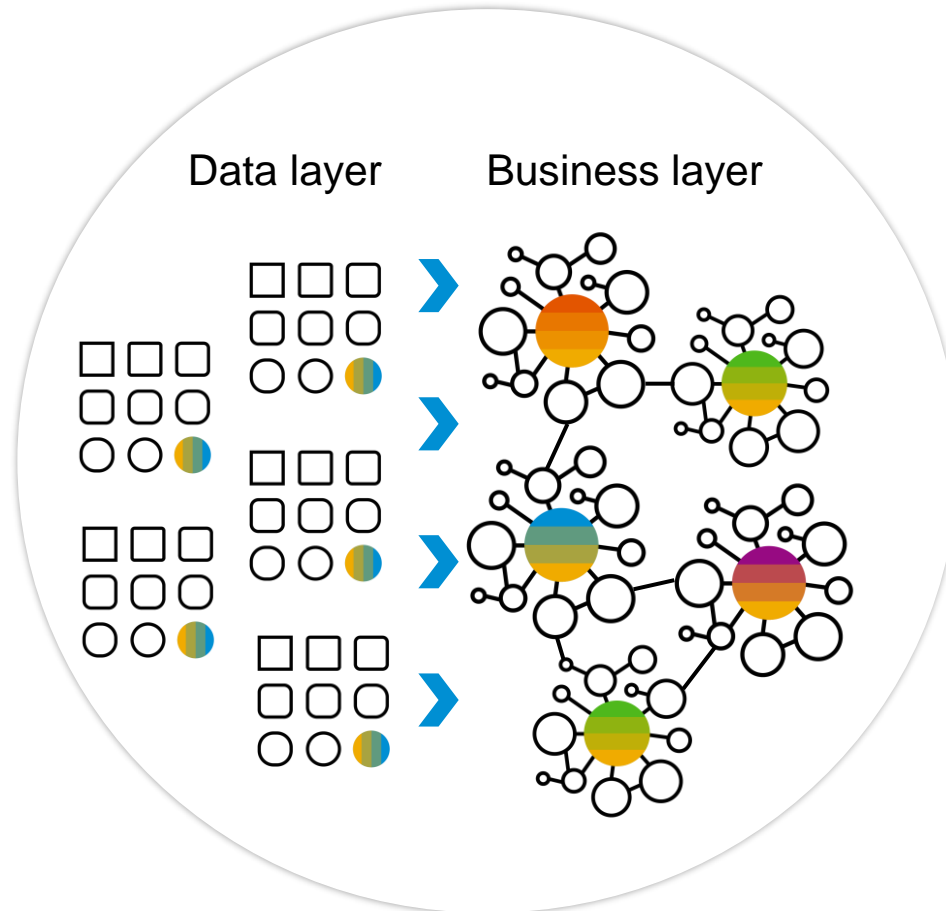
- SAP HANA Cloud Modeling capabilities leveraging Calculation View, Flowgraph, Synonym, etc.
- Simply re-use HANA based Modeling within SAP Datasphere

Combining SAP Datasphere & SAP Analytics Cloud*

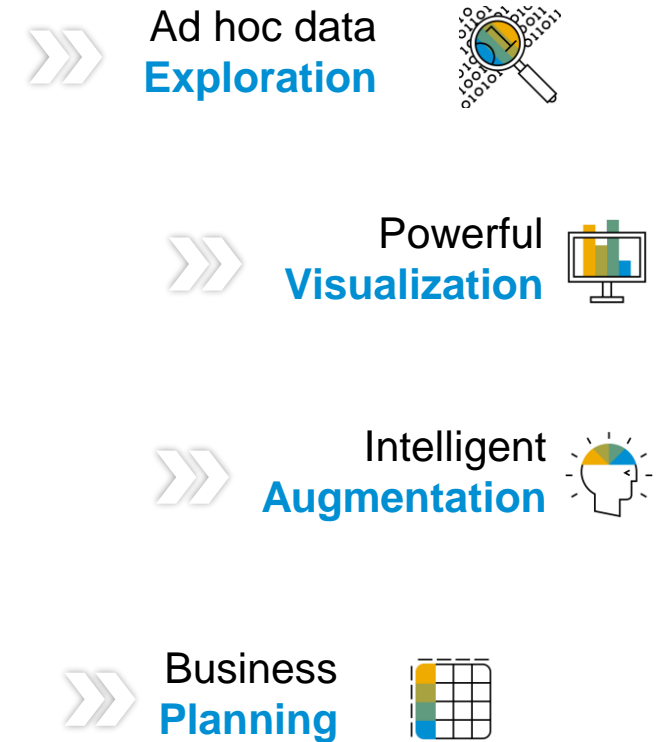
Data sources



SAP Datasphere

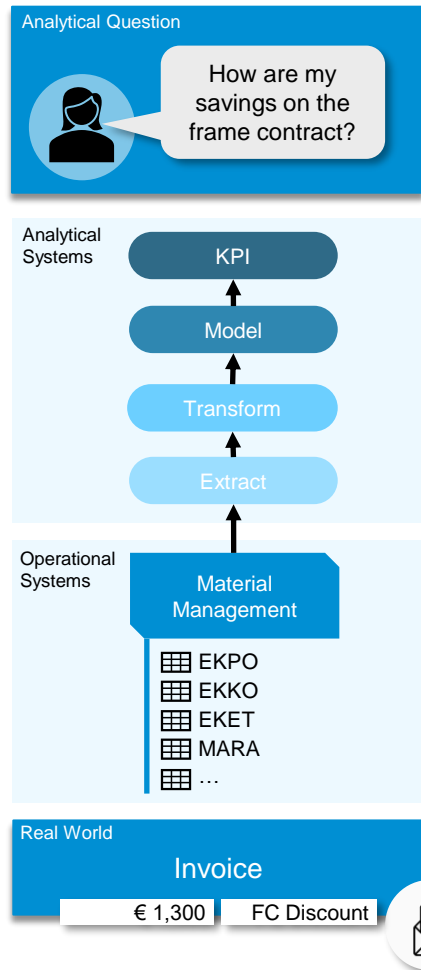


SAP Analytics Cloud



* Please note that both SAP Analytics Cloud and SAP Datasphere are separate products and can be used independent from each other.

Business Content Overview

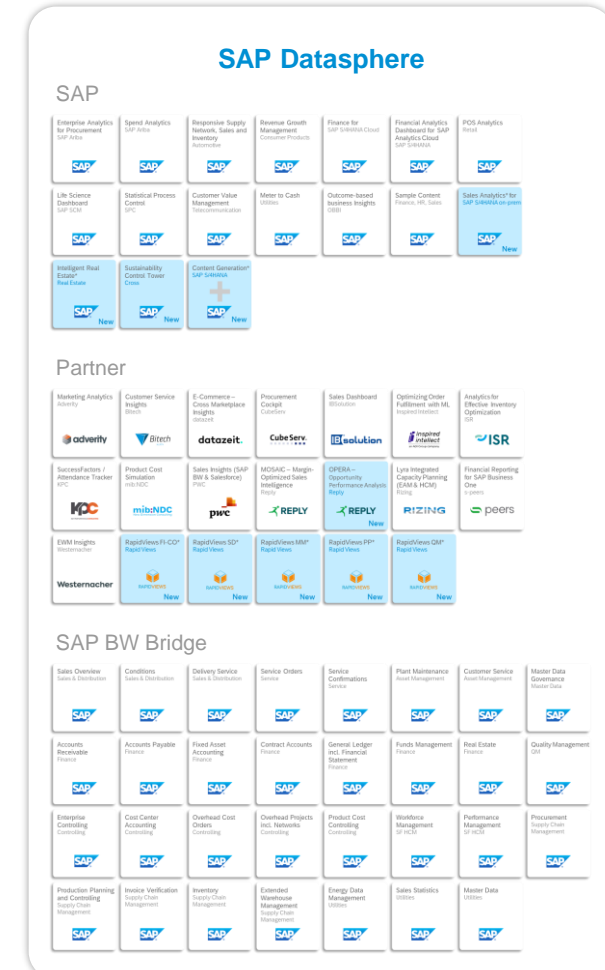


Business Content Collection

Leverage SAP's business expertise and knowledge from our ecosystem of partners with pre-built data models, semantic views of SAP application data, and transformation logic.

Continuously growing number of content packages

- 250+ Content packages built by SAP & Partners for SAP Analytics Cloud and SAP Datasphere
- 31 Content Packages with SAP BW Bridge (11,000+ reusable objects)
- SAP S/4HANA Content Generation (1,000+ Fiori apps ready for import)



Overview of 2023 Priorities

Key priorities will add crucial capabilities and provide further integrated offering

<div>SAP BW Bridge</div> <div>Increased coverage</div> <ul style="list-style-type: none"> • Increase coverage of SAP BW, SAP BW/4HANA capabilities. • Support Non-Cumulative Key figures, External Hierarchies, Exit Variables, etc. 	<div>SAP Analytics Cloud</div> <div>Seamless integration</div> <ul style="list-style-type: none"> • Further extension towards a seamless planning experience with SAP Analytics Cloud • Deepened model integration • Data Analyzer 	<div>Space Dependent Permissions</div> <div>More flexibility</div> <ul style="list-style-type: none"> • Granular assignment of permissions per space • Grouping of users and spaces • Automatic assignment based on SAML attributes and SCIM API 	<div>Modeling</div> <div>Expanded capabilities</div> <ul style="list-style-type: none"> • Multi-Fact modeling and stacking support on the Analytic Model • New modeling features (e.g., folder support, external hierarchies, fiscal year)
<div>Data Integration</div> <div>Increased data reach</div> <ul style="list-style-type: none"> • Advanced data transformation • Coverage of additional DI use-cases and operators • Additional data sources and targets for Replication Flows 	<div>Elasticity Concept</div> <div>React to usage</div> <ul style="list-style-type: none"> • On demand compute during peak consumption scenarios • Improved baseline sizing and TCO optimization 	<div>Discover and Share</div> <div>Collaborate on data</div> <ul style="list-style-type: none"> • Catalog and Data Crawling • Data product exchange within and between organizations 	<div>Life-Cycle Management</div> <div>No disruption</div> <ul style="list-style-type: none"> • Delivery package management • Content protection based on namespace • Content management CI/CD

Worldwide customers



A vibrant ecosystem

ISV partners



SI partners

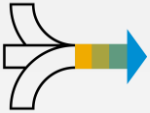


Why SAP Datasphere



Complete End-to-end Solution

Unified data and analytics service providing a complete end-to-end solution with one semantic view designed for business and IT.



Connect to SAP Data with Business Context

Out-of-the box understanding of SAP data with semantic business context from SAP applications.



Connect and Collect Data from all Sources

Data virtualization, replication and orchestration from SAP and third-party solutions across clouds and with on-prem.



Semantic Business Modelling

User empowerment with self-service modeling, governance and IT control. User ability to connect own data, share it securely, and run analytics without affecting other users.



Spaces Management & Data Sharing

Independent virtual work environments to foster collaboration and enable data sharing between IT, business units, and projects to connect global and local data.



Re-use & Extend SAP BW Investments

Leverage SAP BW data structures, transformations, customizations, and skills to quickly extend your SAP BW investments to the public cloud.



Choice and Openness

Multi-cloud support and open interfaces with choice of modeling environments, analysis tools & languages (SQL, Python, Jupyter notebook etc.) – from business analysts to data scientists to developers.



Business Content

Pre-built data models, semantic views of SAP ERP data (CDS views & Service APIs), and transformation leveraging SAP's business expertise and ecosystem partners' knowledge.



Integrated Data Marketplace

Data Marketplace manages scalable and decentralized cross tenant data exchange for data providers & consumers. Use Intelligent Lookup to match imperfect data sets for enterprise-ready usage.



Future Platform for Planning*

Streamlining planning and analysis with reduced modelling efforts, while operating on a single source of truth for analytics and planning across the organization.

SAP Road Map Explorer



Road Map Explorer

Products

Processes

Industries

SAP Road Maps

SAP Road Maps support the journey to SAP's future Enterprise. Explore our road maps, webinars, and more.

Search SAP Road Maps by keywords, topics, products, and more.

Check the latest information on the [SAP ROAD MAP EXPLORER](#)

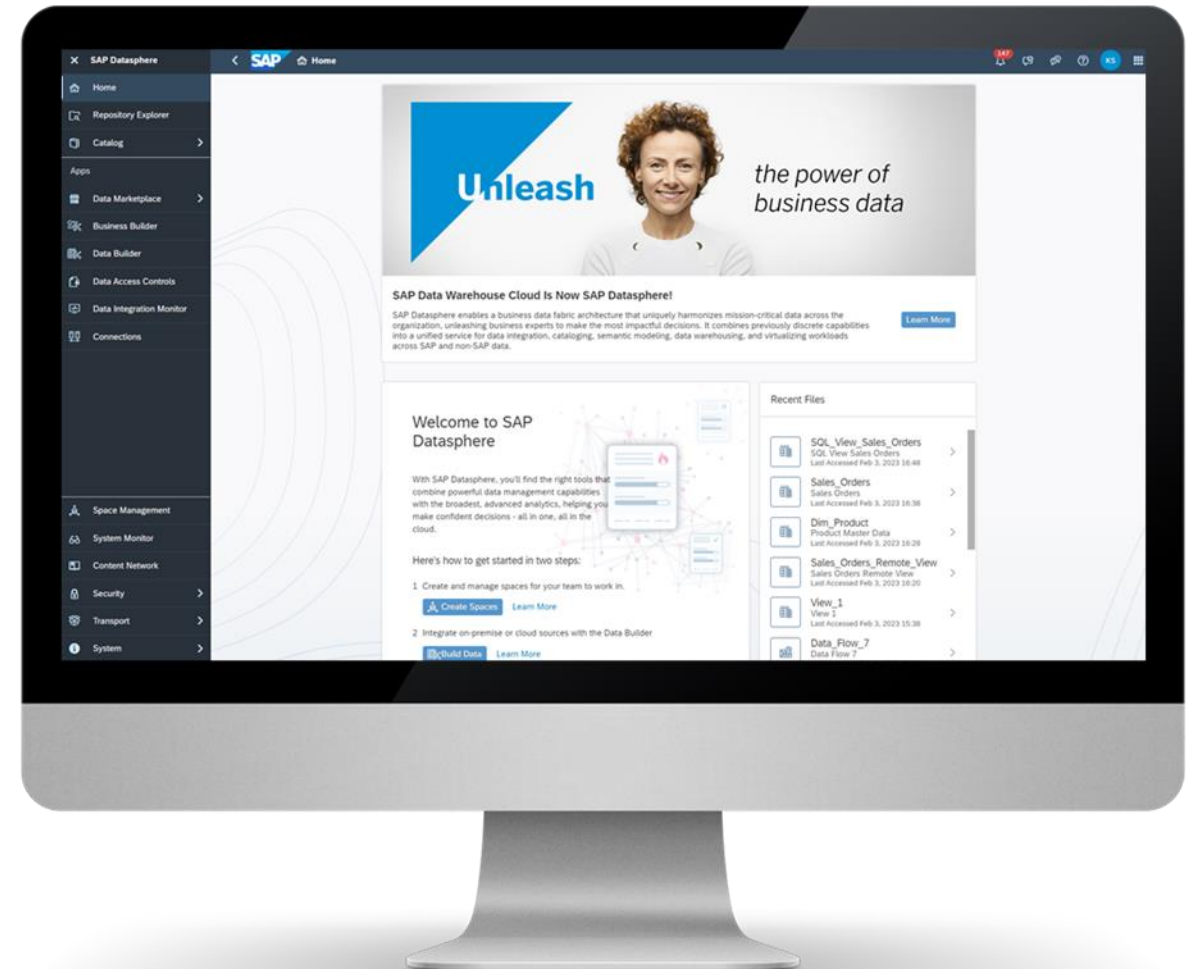
The screenshot displays the SAP Road Map Explorer interface. At the top, there's a navigation bar with 'Products', 'Processes', and 'Industries' tabs. Below this, a search bar and filters for 'Q4 2021 - Q4 2023' are visible. The main content area is a grid of road map items, each representing a specific feature or update for a particular SAP product. The items are organized into columns for different time periods (Q4 2021, Q1 2022, Q2 2022, Q3 2022, Q4 2022, Q1 2023, Q2 2023, Q3 2023, Q4 2023). Each item includes a title, a brief description, and a star icon indicating its importance or status. The interface is designed to help users track the progress of various SAP initiatives and plan their future business processes accordingly.

Start your data and analytics journey with SAP Datasphere

[Take a tour with the Guided Experience](#)

[Learn more on SAP.com](#)

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Thank you.

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Data Warehouse
SAP HANA Database & Analytics

