

SAP BTP Data Management in a Nutshell

SAP Data Intelligence Cloud and hybrid 'cloud - on-premise' landscapes

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Solution Management Data Management

PUBLIC

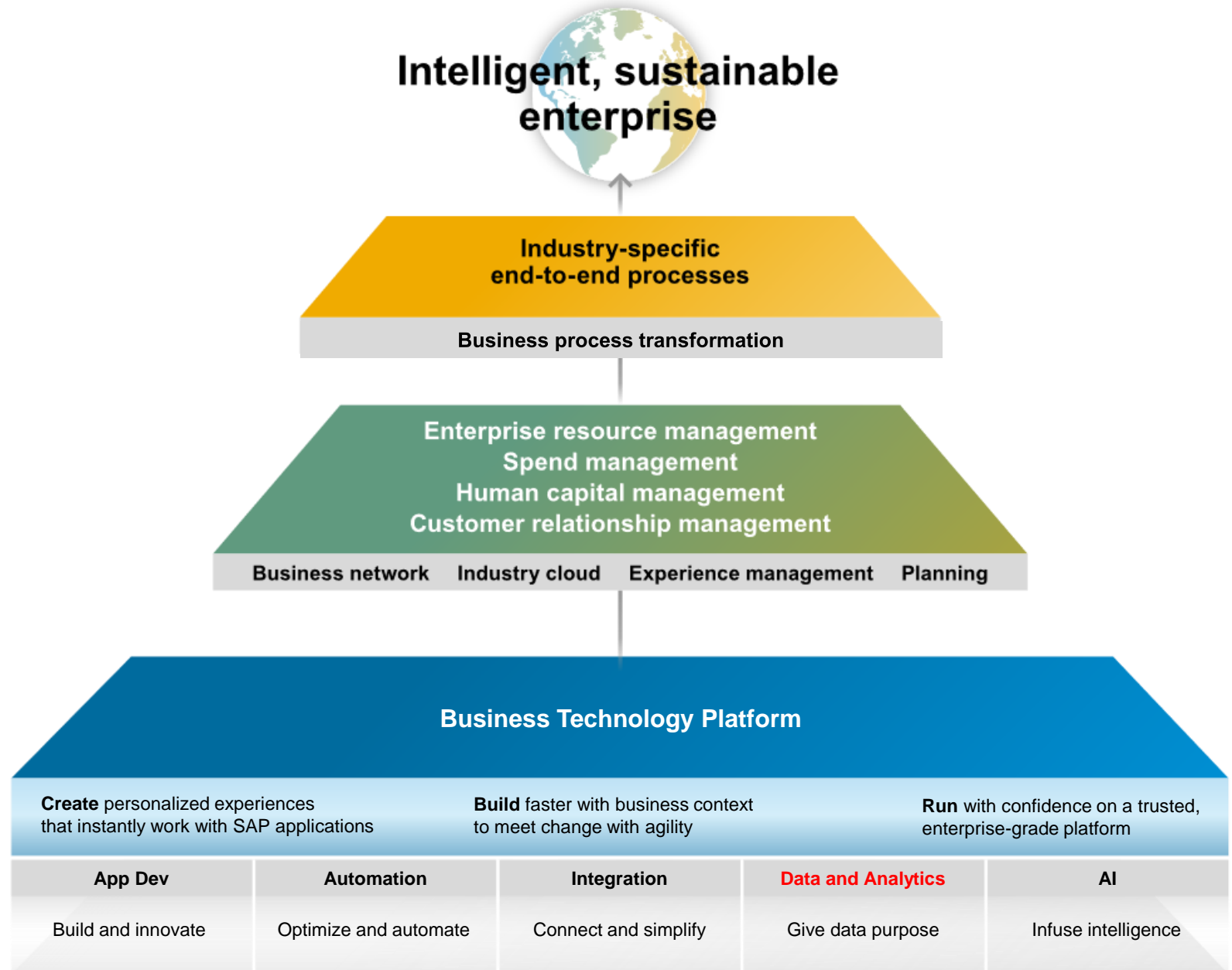
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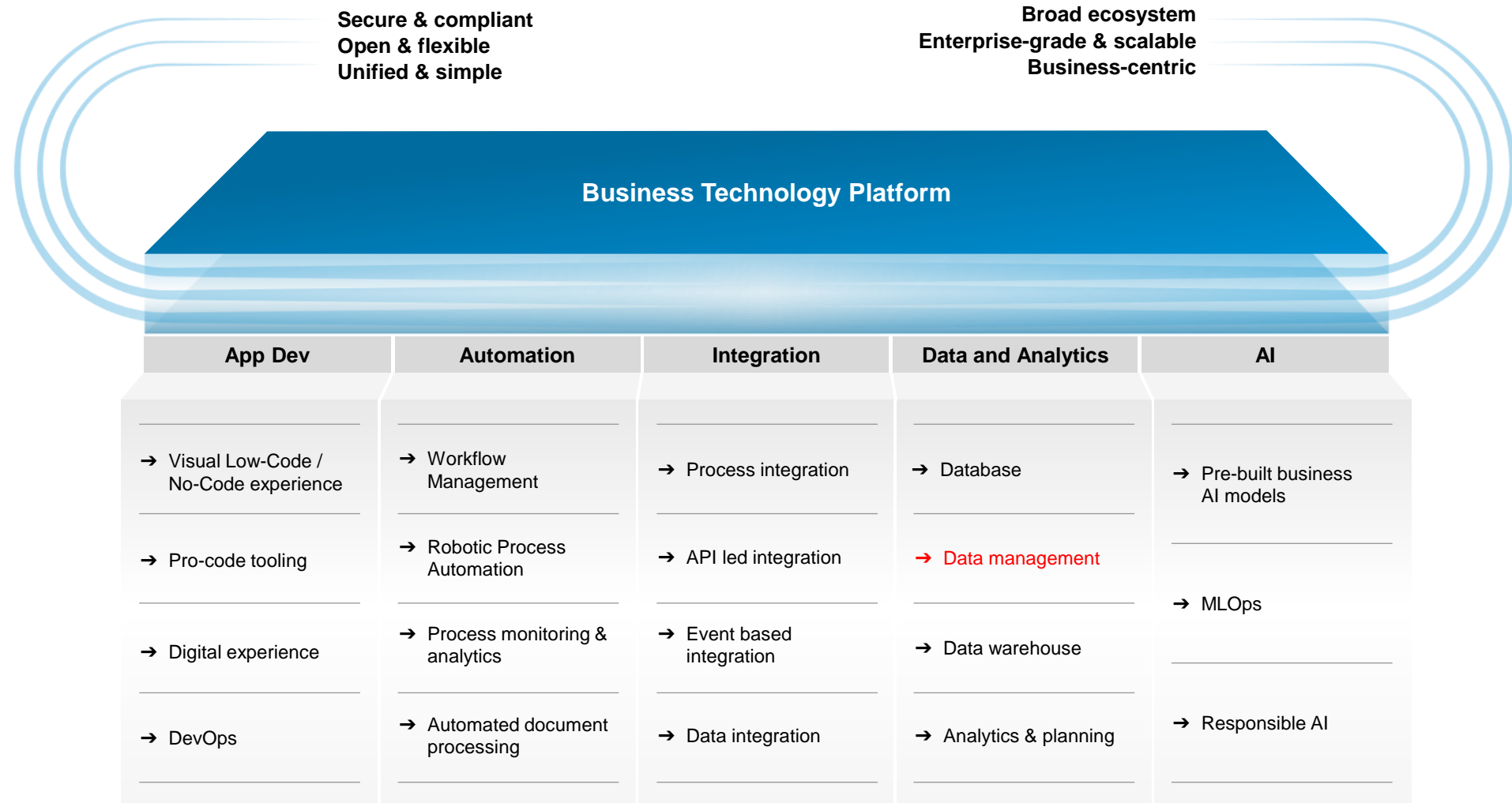
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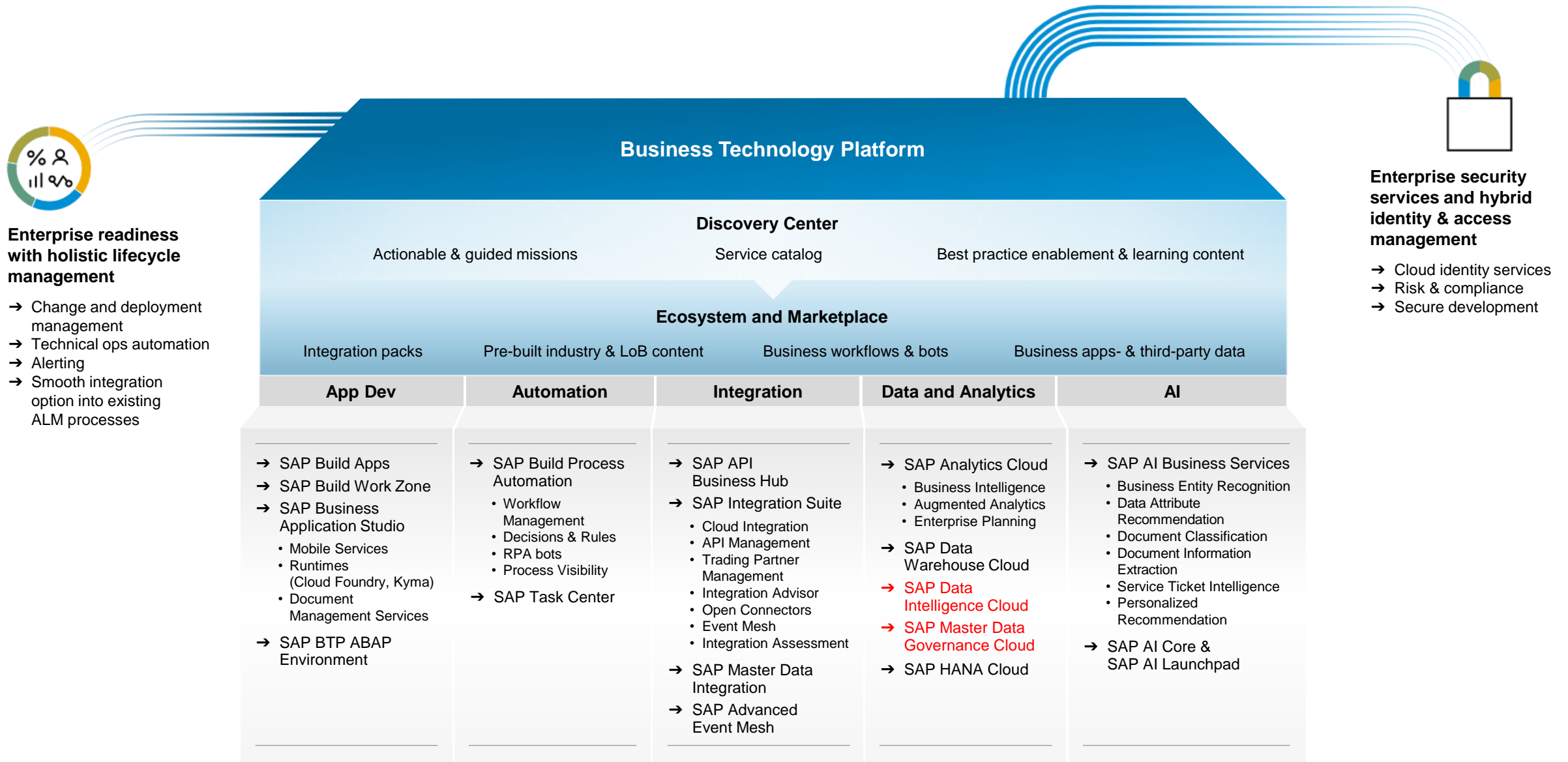
SAP BTP is the foundation of the Intelligent Sustainable Enterprise



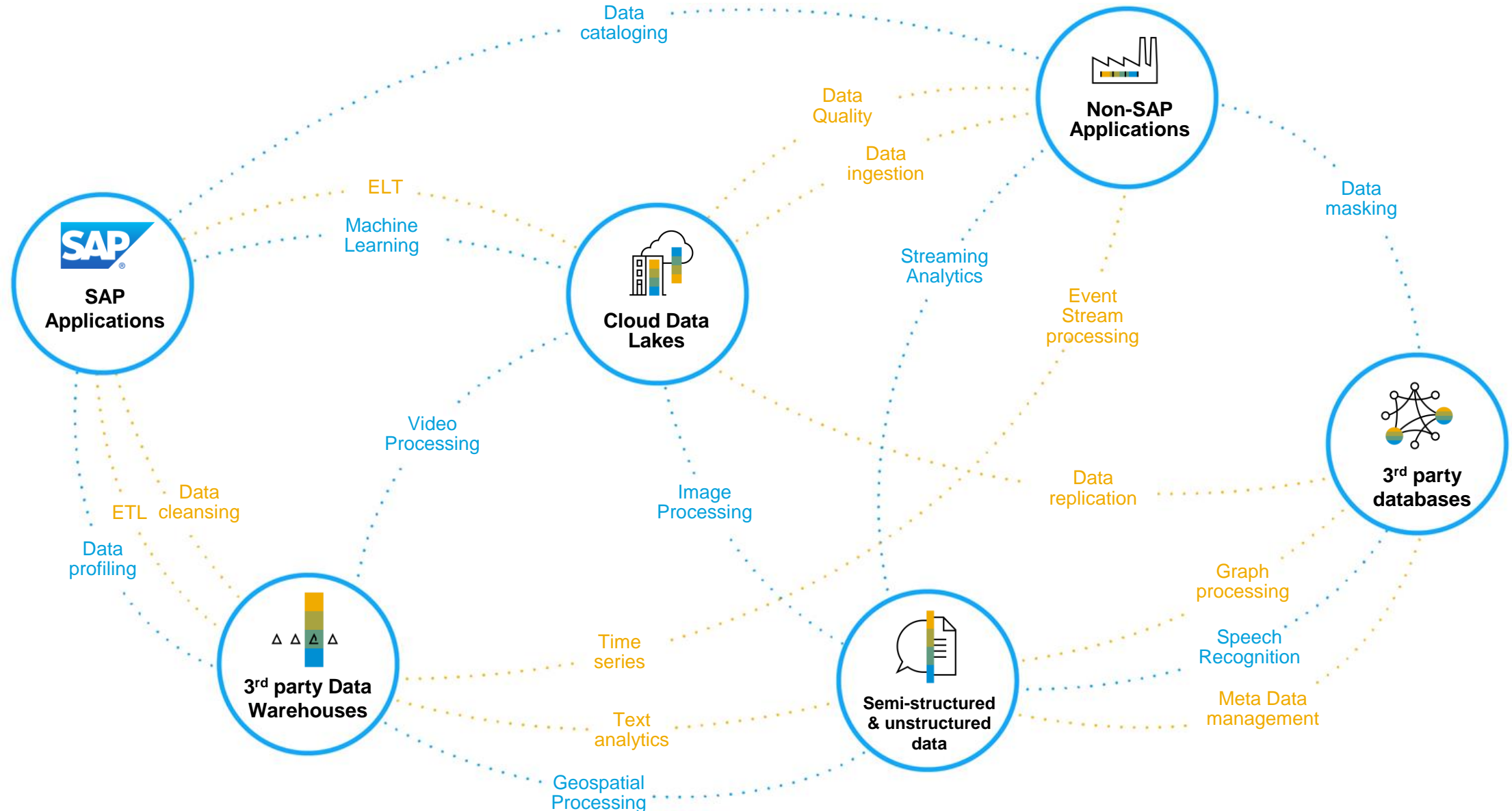
SAP BTP Cloud Capabilities



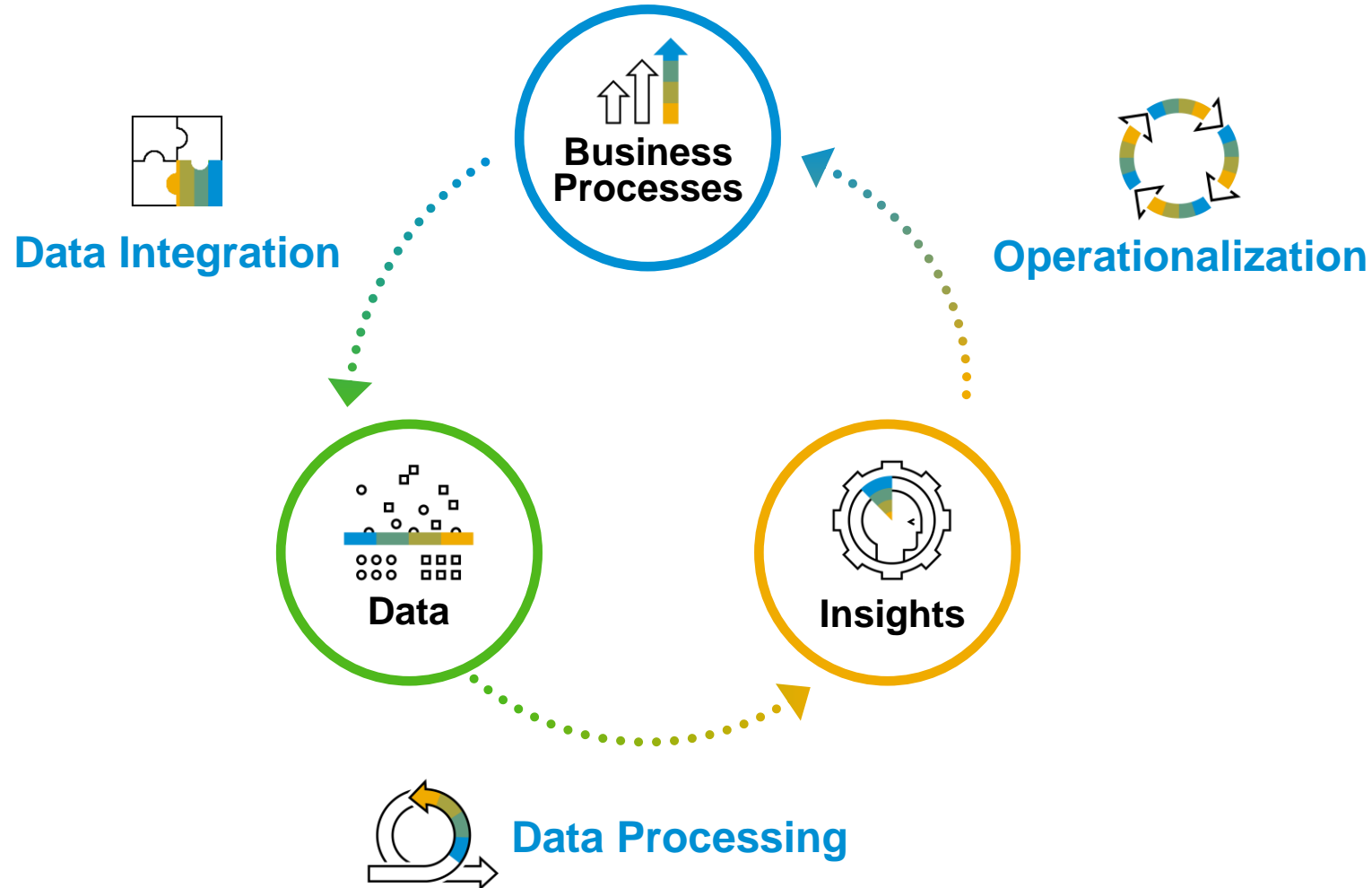
SAP BTP Cloud Services



Why is Data Management **so difficult**?



Data Management is the key for **Business Process** improvement



Why is Data Management so difficult?

Enterprise IT is challenged to a whole new degree!



Integration

"I need to join my sensor data with some image bitmap and with the related master data"



Processing

"I'm clustering the data in Python to feed a predictive model in HANA"



Discovery

"What is this data and what does it mean?"



Quality

"Can I rely on this data to drive decisions in a critical process? How was it gathered?"



Compliance

"Where am I storing personal identity information of German citizens?"



Operations

"My data and engines are spread between my on premise data centre and my hyperscaler cloud"

Why is Data Management **so difficult**?

Enterprise IT is challenged to a whole new degree!



Integration

- Structured, unstructured, streaming
- Batch, (near) real-time
- Transactional, Analytical, Hybrid



Processing

- Several heterogeneous engines
- Diverse processing patterns (offline, lambda, event-driven ...)



Discovery

- Discover the available data sets, and find out their semantics



Quality

- Data inconsistencies and fragmentation
- Biased data sets
- ML model life cycle



Compliance

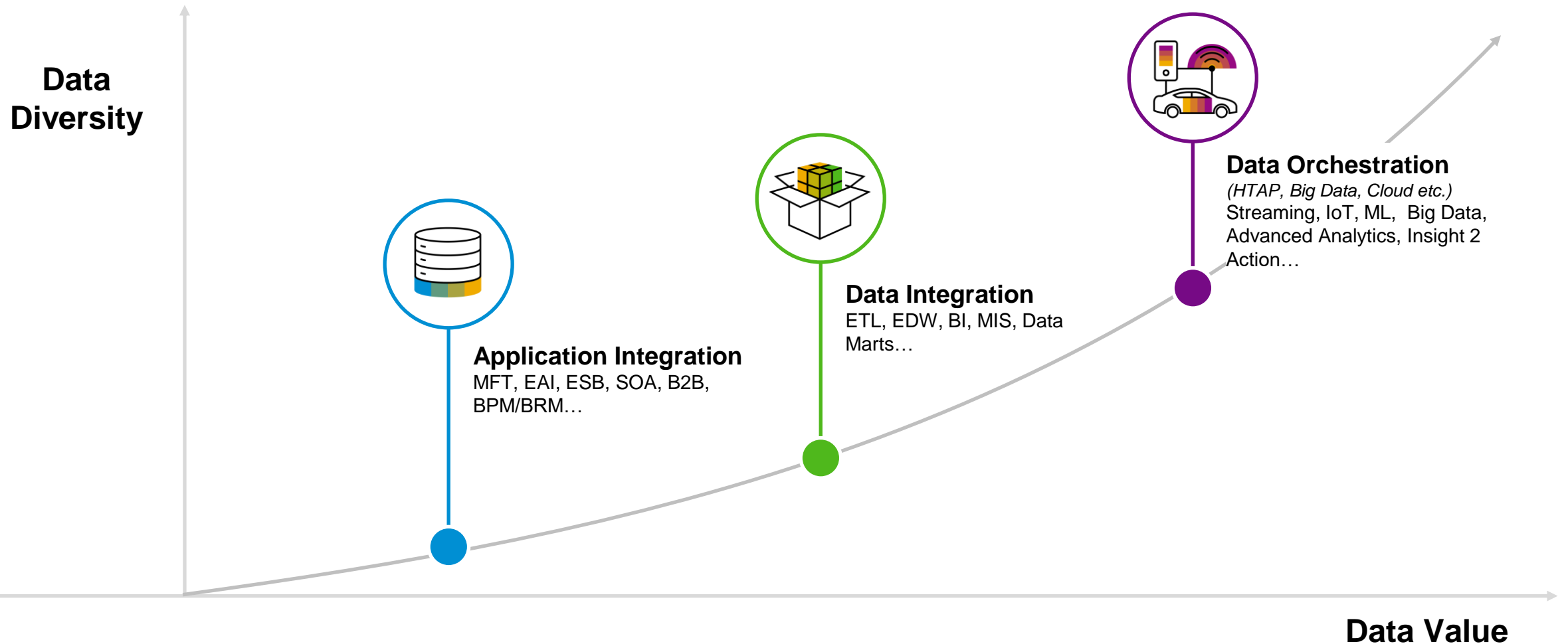
- Data privacy and protection
- Data lineage and auditing



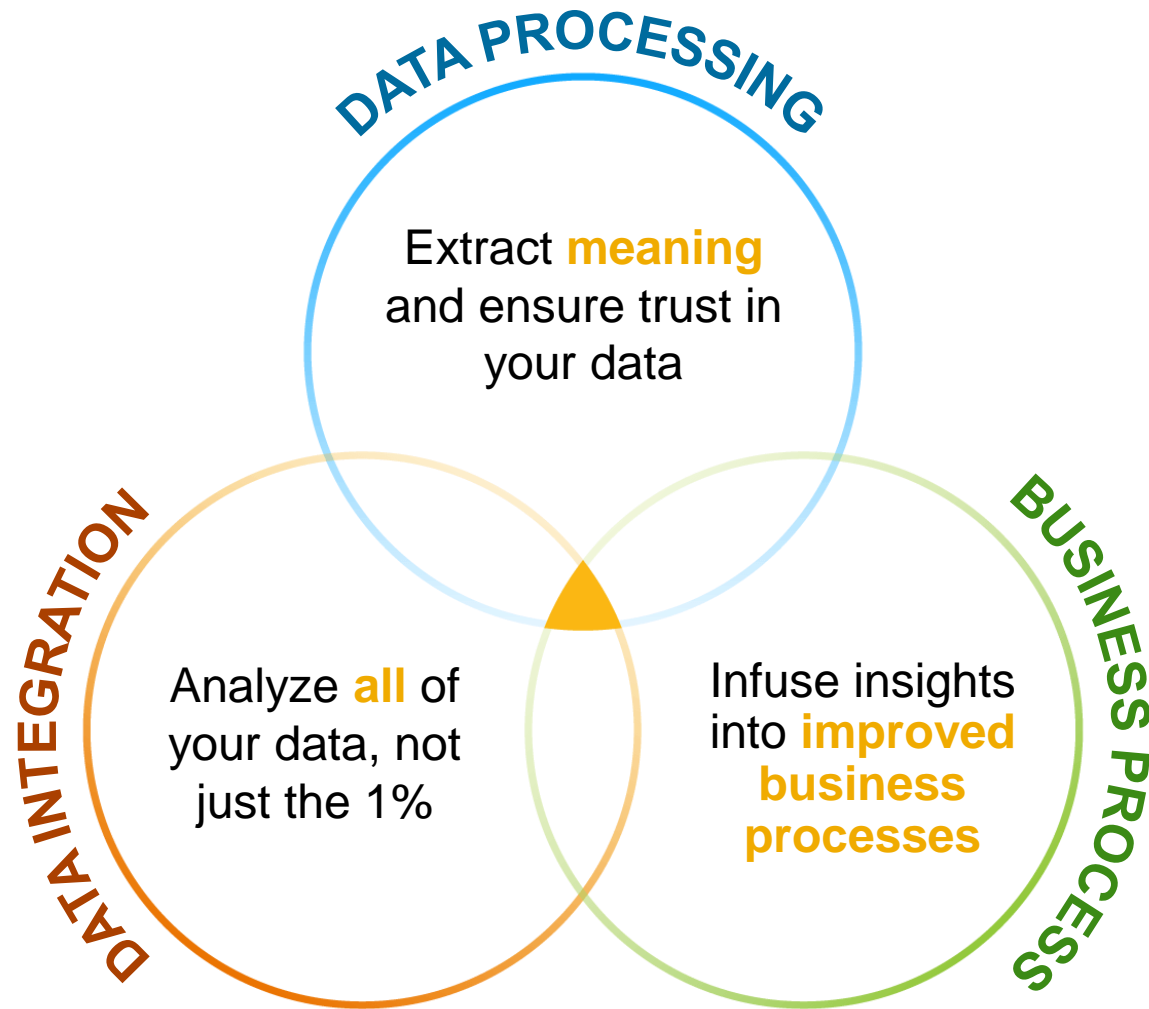
Operations

- Distributed landscapes, cloud and on-prem
- Elastic scaling
- Monitoring

Modern Data Management needs **Data Orchestration**, beyond data integration



SAP Data Intelligence – From Data Integration to **Data Orchestration**



Unification of Capabilities

DATA INTEGRATION



SAP LT Replication Server

On-prem

SAP HANA Smart Data Integration

On-prem

SAP Data Services

On-prem

DATA CATALOG



SAP Information Steward

On-prem

SAP HANA Agile Data Preparation

On-prem

DATA PROCESSING



SAP Data Intelligence

Cloud, on-prem and hybrid

SAP Data Intelligence – Core Capabilities



SAP Data Intelligence



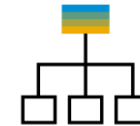
Data Integration

Connect and integrate everything, structured, unstructured or streaming



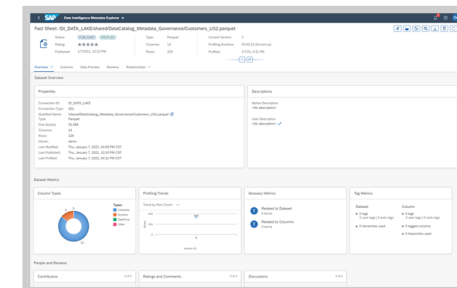
Data Processing

Extract meaning from data, orchestrating any mix of engines



Data Catalog

Discover, classify, profile, understand and prepare all your enterprise data assets



SAP Data Intelligence – Data Integration

Data pipelines integrate disparate data across distributed infrastructures



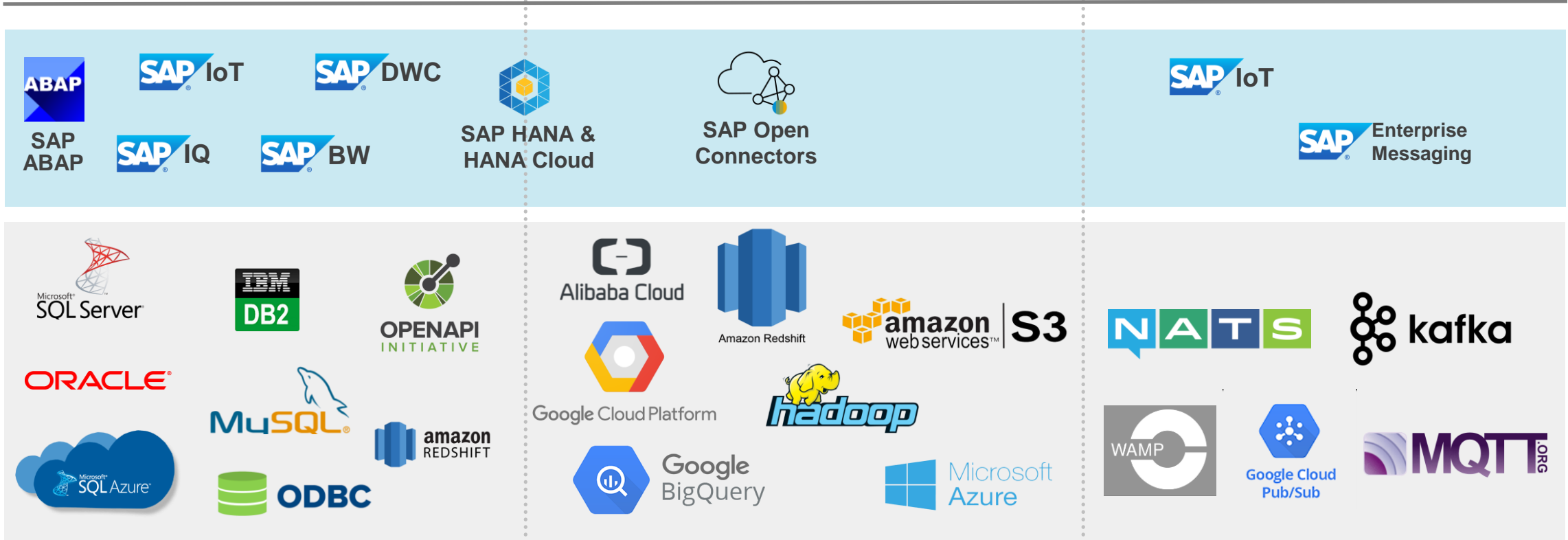
Structured
Data



Unstructured
Data

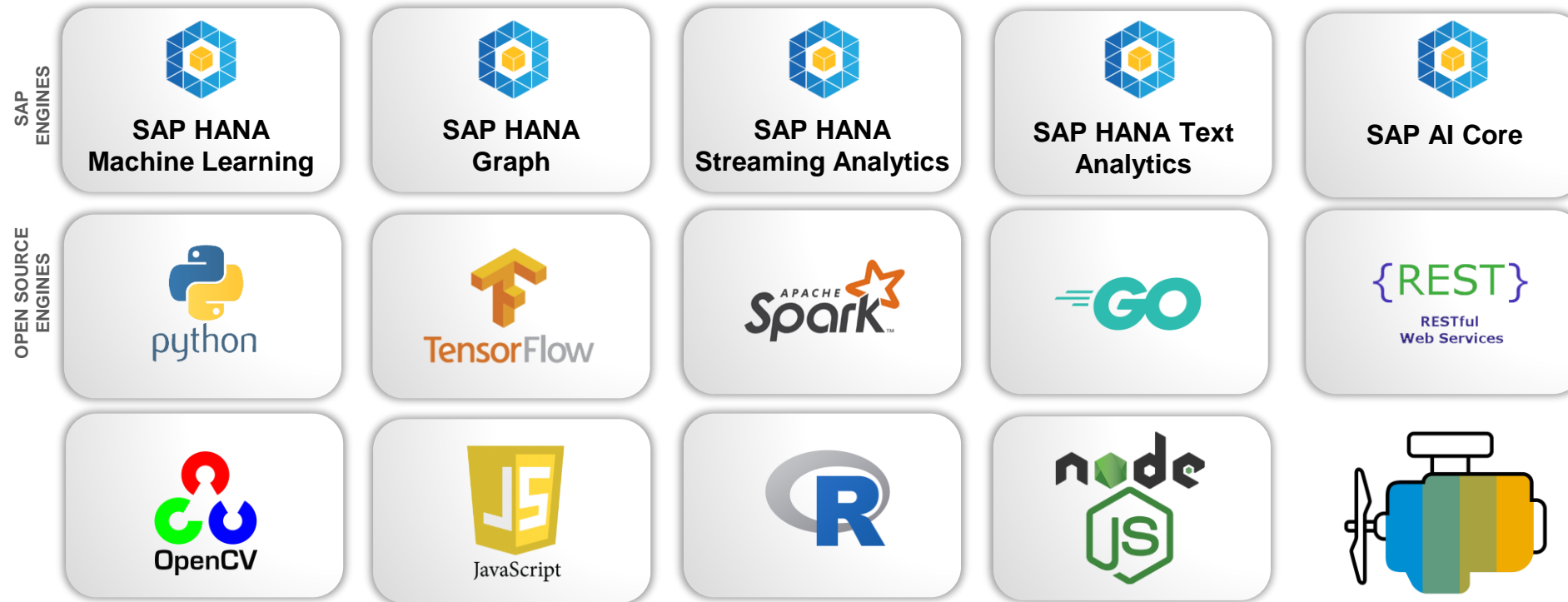


Streaming
Data



SAP Data Intelligence – Data Processing

Orchestrate several heterogeneous data processing engines

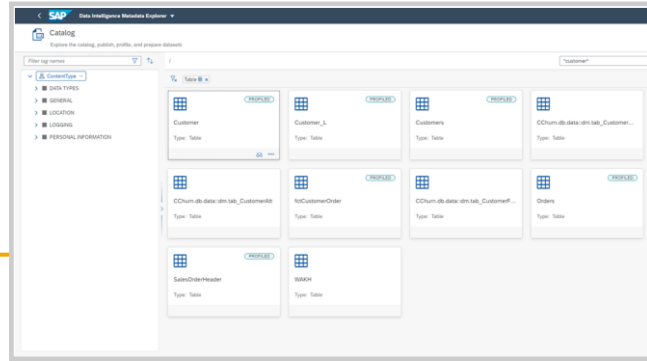


... across distributed infrastructures, cloud and on-prem, minimizing data movements

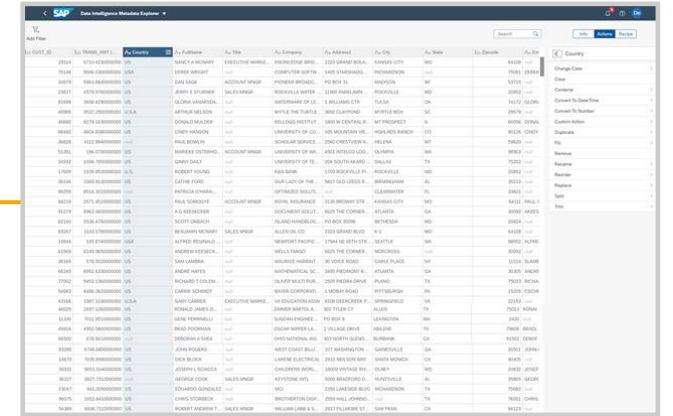


A centralized Data Catalog for your enterprise data governance

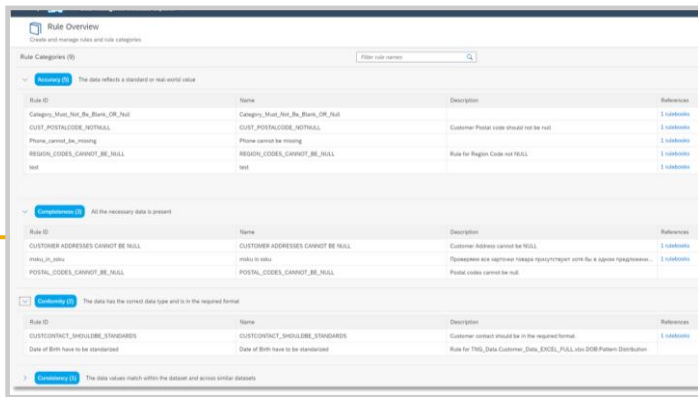
Data discovery, browsing and profiling



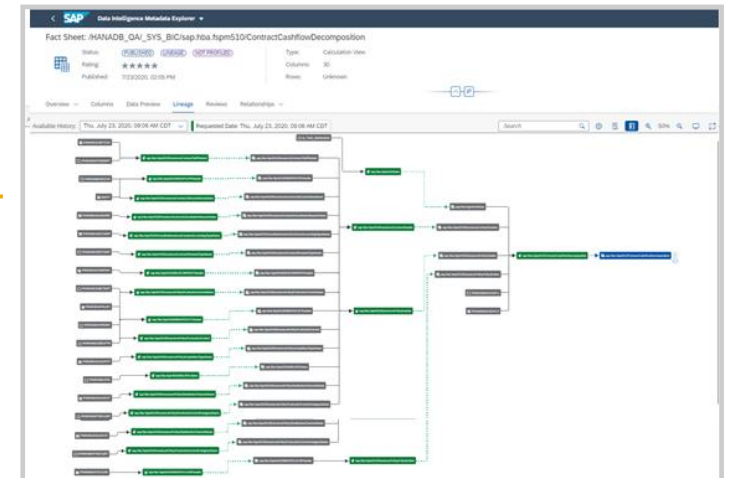
Self-service Data Preparation



Data quality rules and scorecards



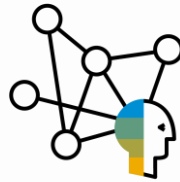
Data lineage



SAP Data Intelligence – Key value-add scenarios for SAP customers



SAP Data Intelligence



SAP Integration

Connect **SAP applications** at the **ABAP layer**, and reuse **data semantics** for all analytics



Data Management for SAP BTP

Single coherent cloud data management solution for the **SAP BTP**



Hybrid Data Management

Reuse all existing **SAP tools** and manage the end-to-end landscape

SAP Data Intelligence enabling Hybrid Data Management

Transition to Cloud Data Management at your own pace



End-to-end data fabric across
hybrid landscapes



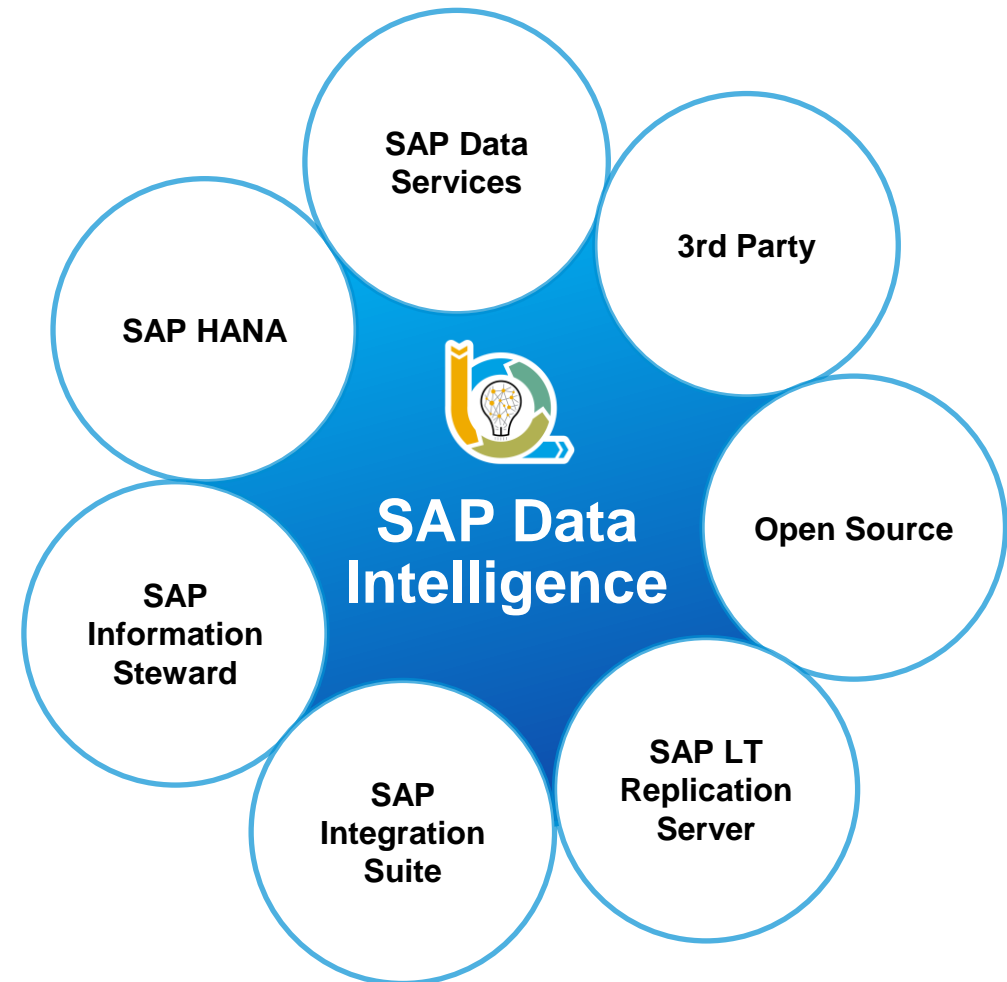
Safeguard past investments
by reusing existing assets



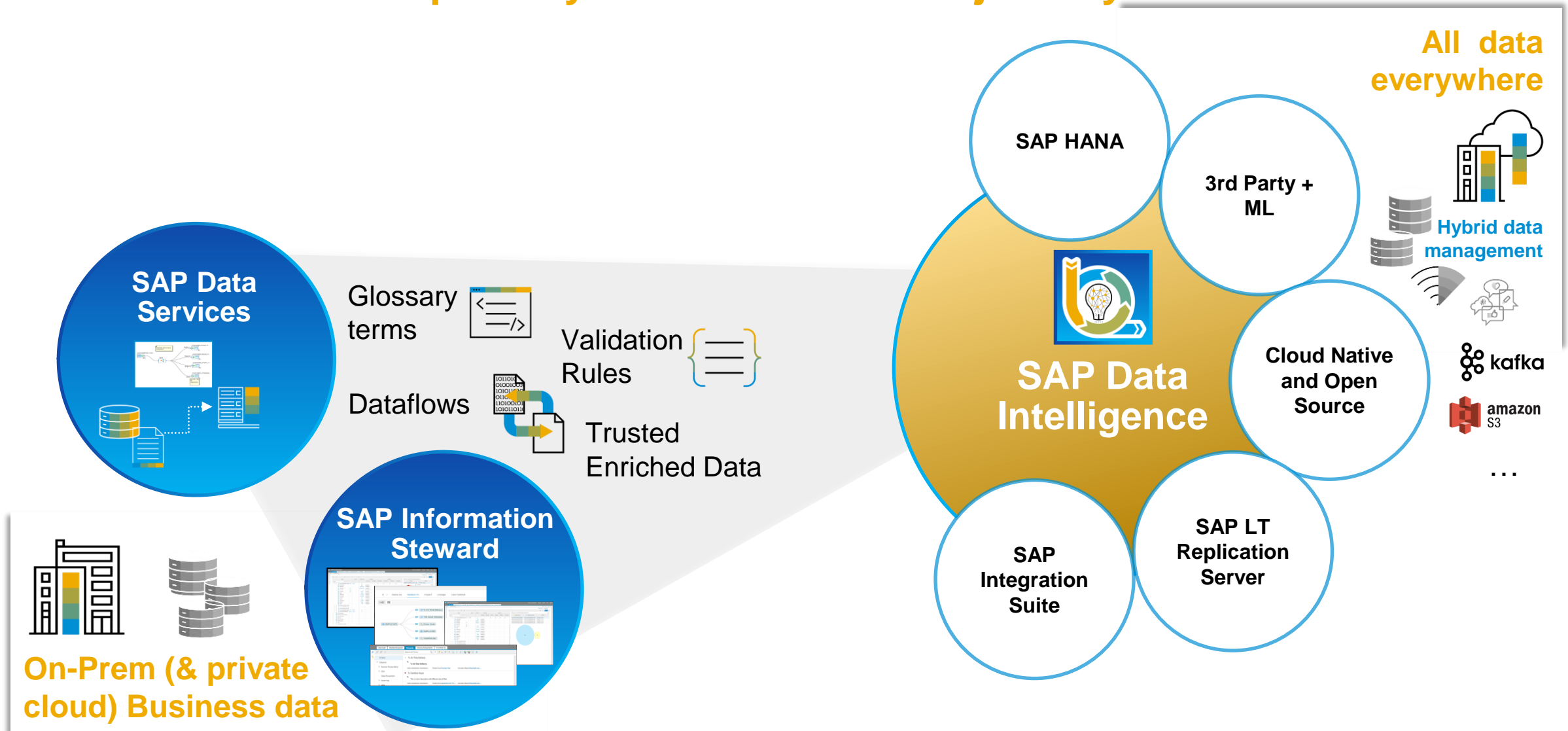
Modernize landscape
without disruption



Cloud elasticity & **agility**

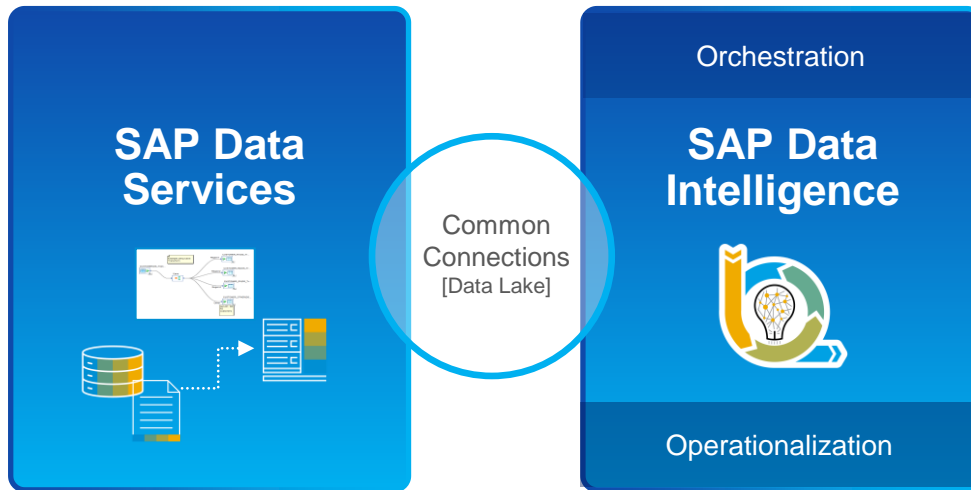


SAP helps you **extend** your data management investments to **power your transformation journey**

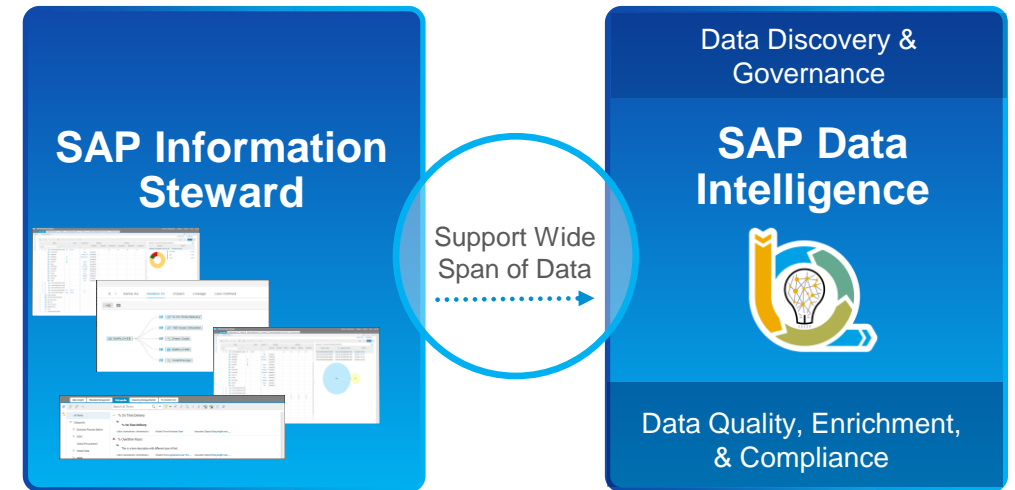


SAP Data Intelligence enabling Hybrid Data Management

Leverage existing SAP EIM tools

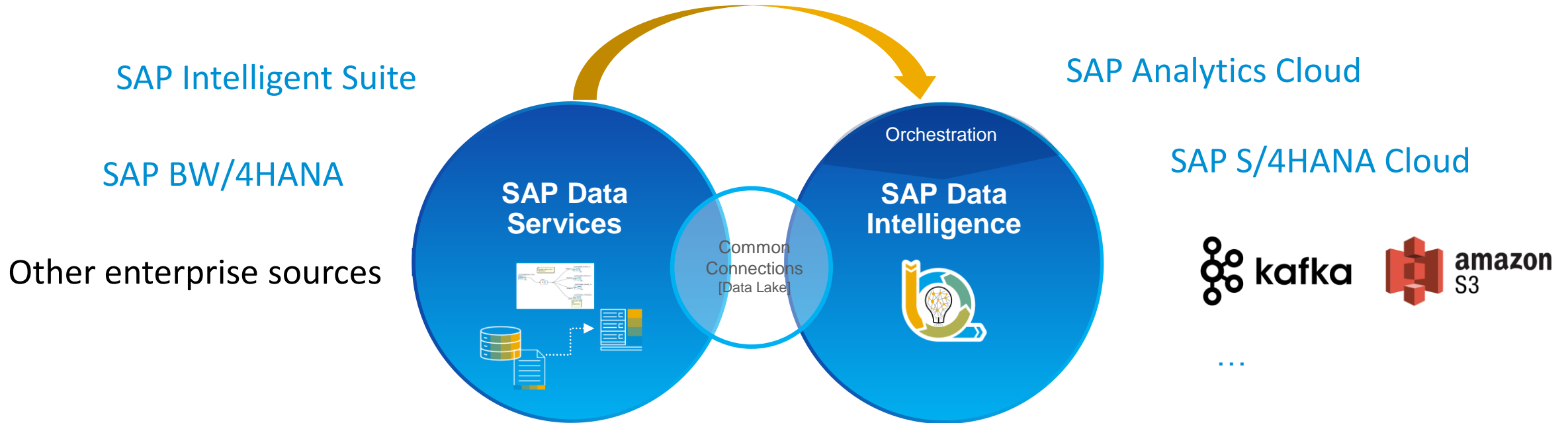


- Extend reach of Data Services assets across diverse system landscapes
- Orchestrate Data Services jobs within Data Intelligence pipelines (direct data exchange planned in DI 2107*)
- Enhance enterprise business processes with high value data and insights from external systems



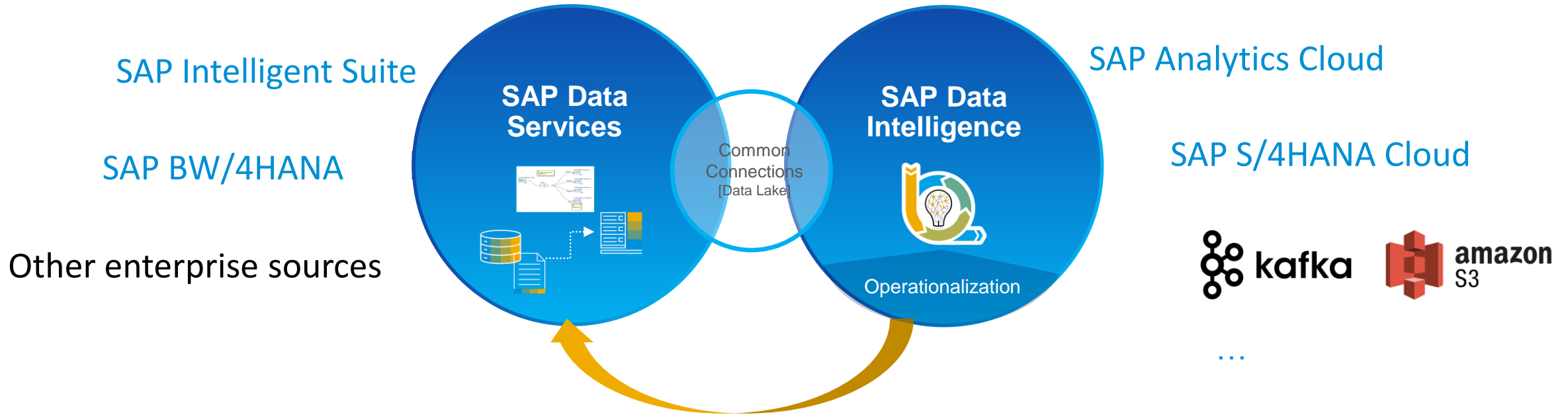
- Reuse Information Steward rules within Data Intelligence
- Shared glossary of terms
- Metadata shared across applications, augmented by ML learning models, planned in roadmap*

Example: SAP Data Intelligence makes SAP Data Services enriched data easily accessible to new target systems



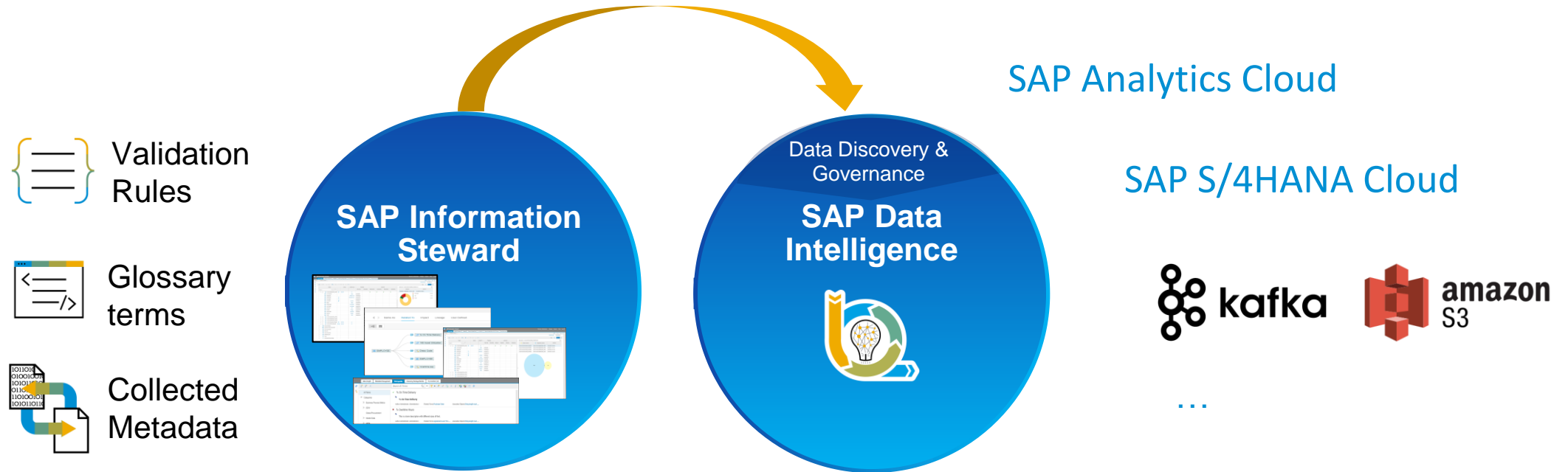
- Extend the output of the SAP Data Services dataflows to a data lake of choice
- Orchestrate SAP Data Services software jobs as a part of the SAP Data Intelligence software pipeline (direct data exchange planned in DI 2107*)
- Publish the shared data to new SAP and 3rd party targets
- Leverage SAP Data Services software data standardization, cleansing and enrichment in SAP Data Intelligence pipelines

Example: SAP Data Intelligence feeds ML-processed data back to SAP Data Services



- ML algorithms in SAP Data Intelligence identify high-value data from external systems and provision it to SAP Data Services through a data lake (direct data exchange planned in DI 2107*)
- SAP Data Services integrate the new data with enterprise data

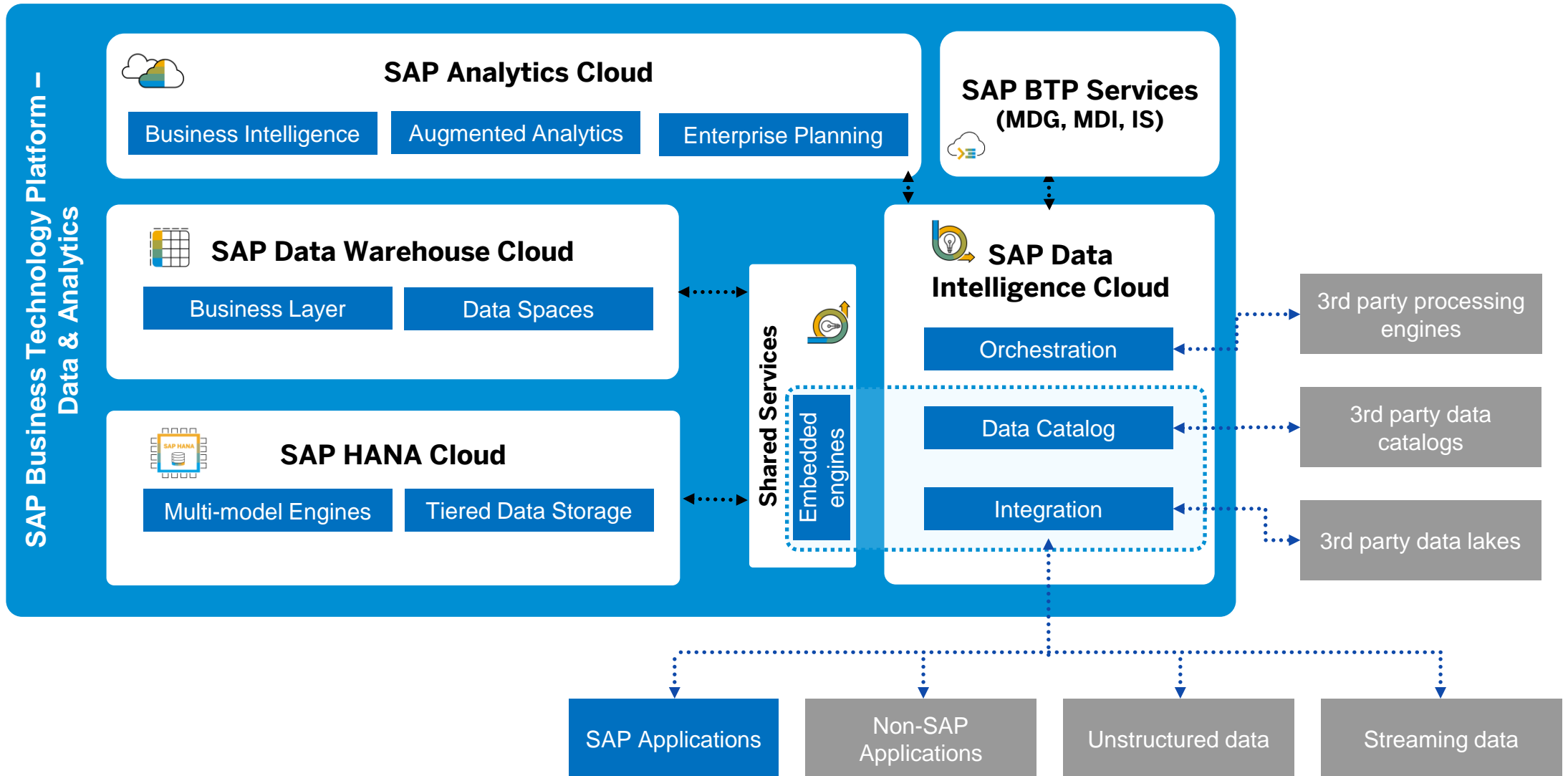
Example: SAP Data Intelligence reuses SAP Information Steward proven data validation rules rules and glossary terms



- Import SAP Information Steward rules and glossary terms into SAP Data Intelligence.
- Apply the validation rules within SAP Data Intelligence against new sources
- Reuse glossary terms within SAP Data Intelligence against new sources and metadata objects

SAP BTP Unified Data & Analytics

Enabling an end-to-end data fabric to drive business outcomes



SAP Ranked as a Leader

The Forrester Wave™: Enterprise Data Fabric, Q2 2020



Figure 1: Forrester Wave™: Enterprise Data Fabric, Q2 2020



[Full Report](#) / [Newsbyte](#) / [Blog](#)

SAP was recognized as a **leader** in the Q2 2020 Enterprise Data Fabric Wave™ by Forrester based on its scores in the **current offering, strategy and market presence** categories.

According to the report: “SAP enhances data management capabilities to support complex use cases.”

SAP earned **5/5 scores for 14** criteria including:

- Data Pipeline
- Data Discovery
- Data Security
- Data Processing/Persistence
- Data Transformation
- Data Quality
- Data Integration
- Data Access and Search
- Data Fabric Deployment
- Use Cases
- Roadmap
- Professional Services and Support
- Revenue
- Customer Base



[The Forrester Wave™: Enterprise Data Fabric](#), Q2 2020, Noel Yuhanna with Gene Leganza, Robert Perdoni, Christine Turley, 10 June 2020

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SAP Data Intelligence – Next Steps

SAP Data Intelligence on sap.com

[Try the interactive demo](#) or [sign-up for the trial](#)

Managing Data Orchestration and Integration at Scale – O'Reilly report

Thank you.

Contact information:

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