Auritas

SAP Gold Partner

Driving Innovation, Empowering Transformation

SAP Business Warehouse Private Cloud Edition (BW PCE)

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Why Move to BW Private Cloud?

- Retain current BW investment and customizations while transitioning to the cloud.
- BW PCE can integrate seamlessly with both on-premise and cloud solutions.
- Modernize without doing a full re-implementation of BW.
- BW PCE supports a “lift and shift” approach—making it easier, faster, and less risky to move from on-prem.
- Get the cloud advantages, but in a private, dedicated environment
    - Reduced infrastructure management, scalability, and availability
- Designed to meet strict regulatory and compliance requirements.

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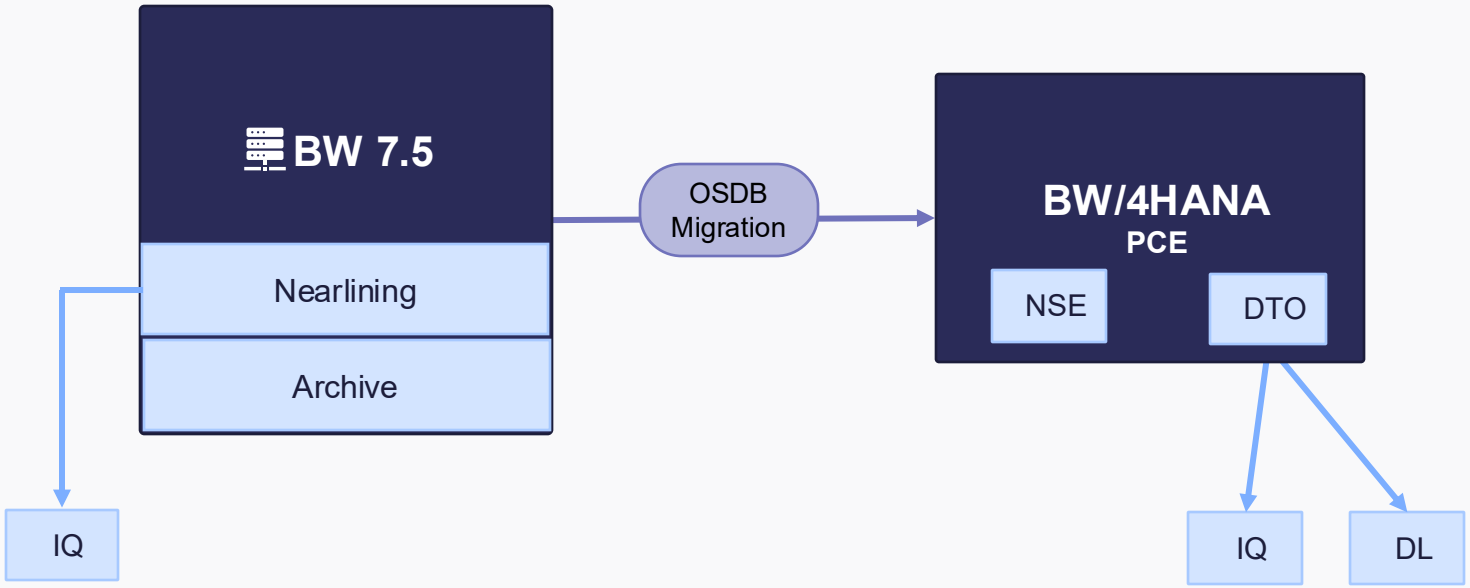
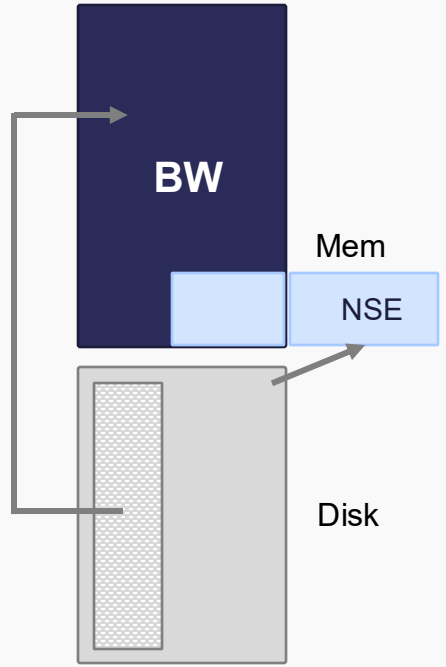
Moving to BW PCE





1 **Archiving**

2 **NLS (Already Done or Not)**

3 **Partial Migration**

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Customers We Moved BW to Cloud
Why Did They Move?

- Electrolux (Sweden) – Moved BW on HANA to BW4/HANA on AWS
- LES (Lincoln Electrical Systems) – BW on Oracle (BW 7.5) moved to AWS
    - Started the process of migrating to Datasphere via BW Bridge (may shift to Data product generator)

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Steps to BW to BW PCE Migration

1. Plan & Assess
   - Readiness Check & Sizing
   - Migration path: In-place, Remote, Shell
   - Estimate HANA memory & sizing
   - Project Plan, freeze window & fallback
2. Provision BW PCE landscape
   - SAP builds DEV/QAS/PRD in chosen region
   - Set up VPN/Cloud Connector & SAProuter
   - Configure SSO (SAML2/ADFS)
   - Register systems in Maintenance Planner
   - Validate network, backup & DR setup
3. Source-System Preparation
   - Install BW/4HANA Starter Add-On
   - Transfer Cockpit pre-checks & object cleanup
   - Convert classic InfoCubes/DSOs → ADSO
4. Technical Migration & Conversion
   - Move & adjust custom Z-objects
   - Initial data load & delta catch-up
   - Redirect interfaces & BI tools to BW PCE
5. Testing & Validation
   5. Functional reconciliation of key figures
   6. Performance benchmark & tuning
   7. Security & role mapping tests
   8. User Acceptance Test (UAT) sign-off
6. Cut-Over
   - Final delta load & business validation
   - Switch DNS/endpoints to BW PCE
   - Unlock users
7. Post-Go-Live & Optimization
   - Activate housekeeping & HANA tiering
   - Set up Cloud ALM monitoring dashboards
   - Tune backup, retention & DR replication
   - Plan Datasphere / BDC integration

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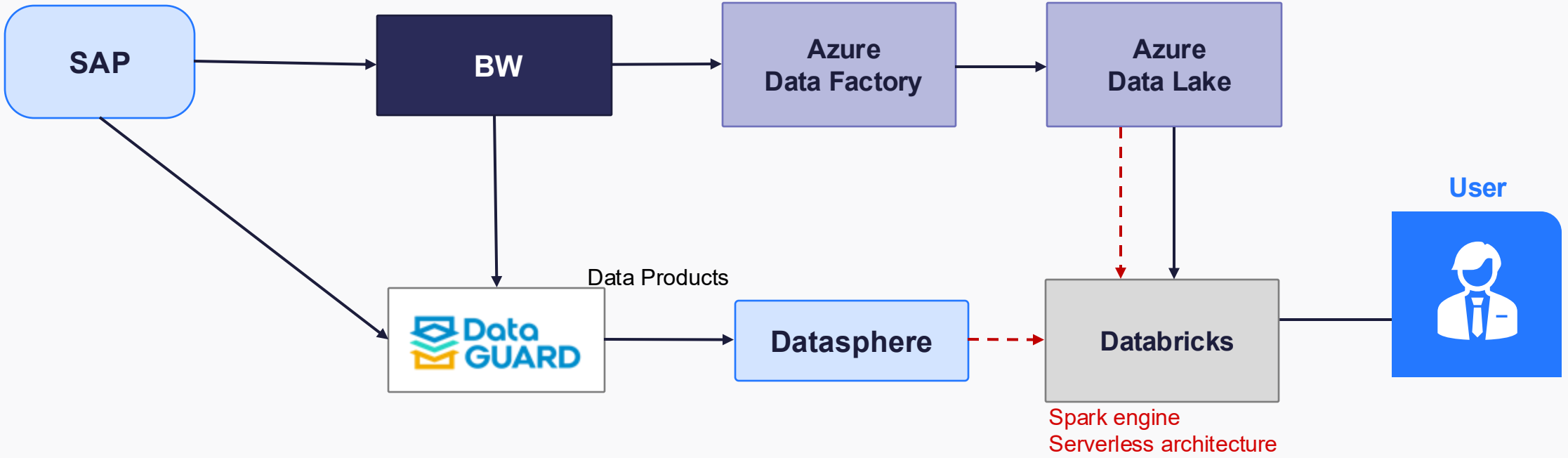
Auritas Approach



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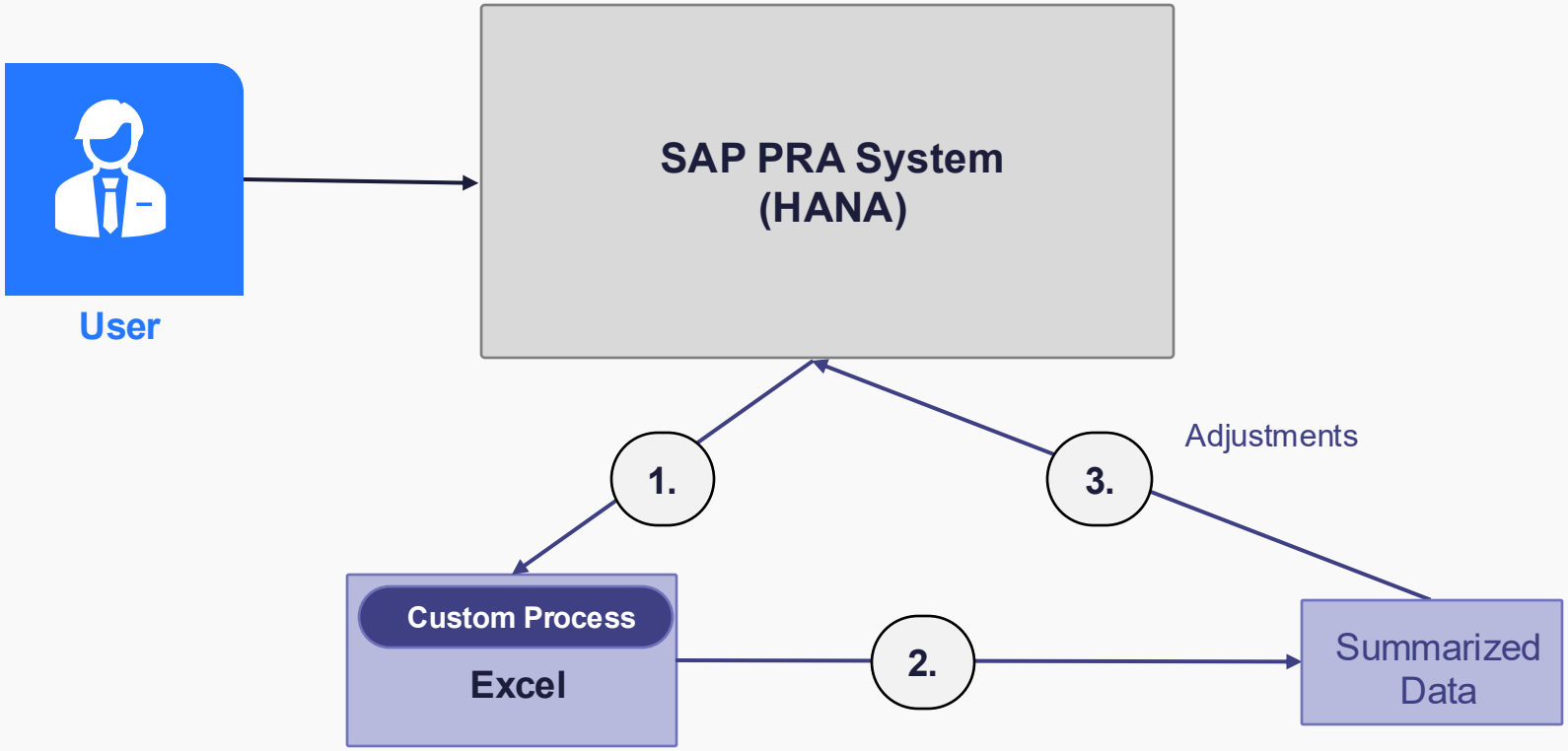
Current Process



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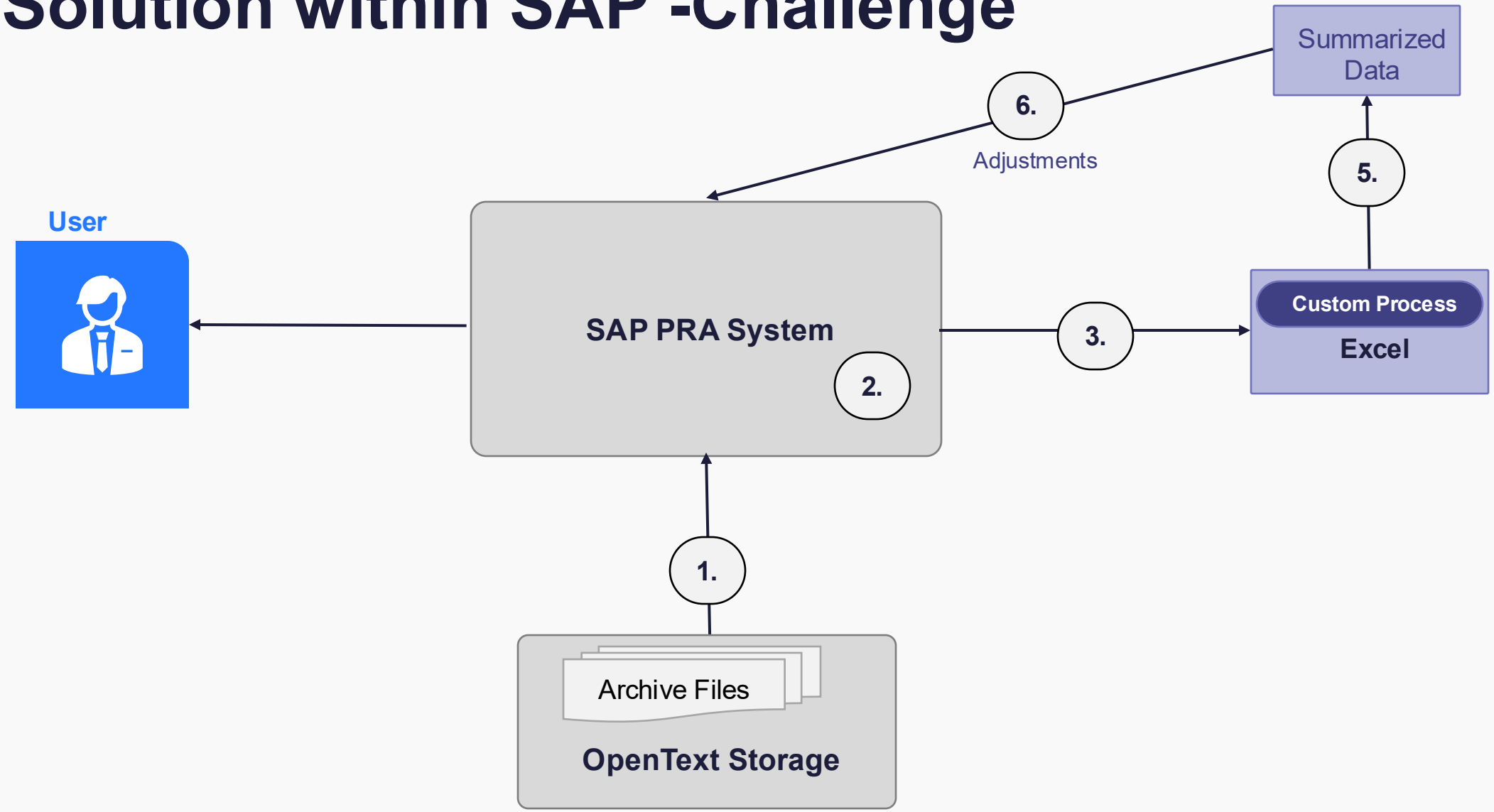
Solution within SAP -Challenge



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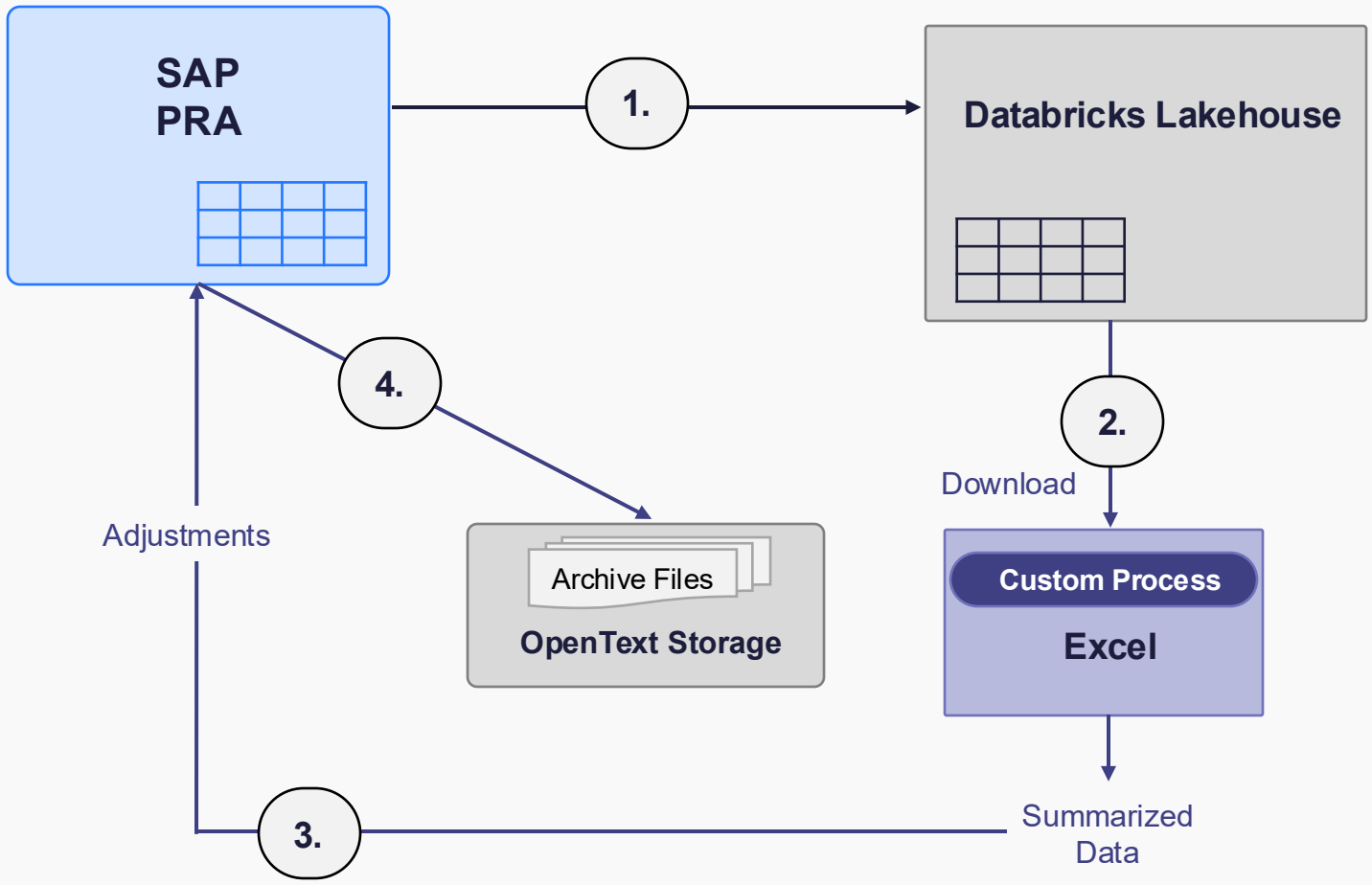
Interim Solution



With Datasphere, you don't have to move data into Databricks, you can still visualize it from Databricks.

Datasphere has limited capabilities in Python, e.g. Datasphere only supports panda.
Databricks has all Python libraries.

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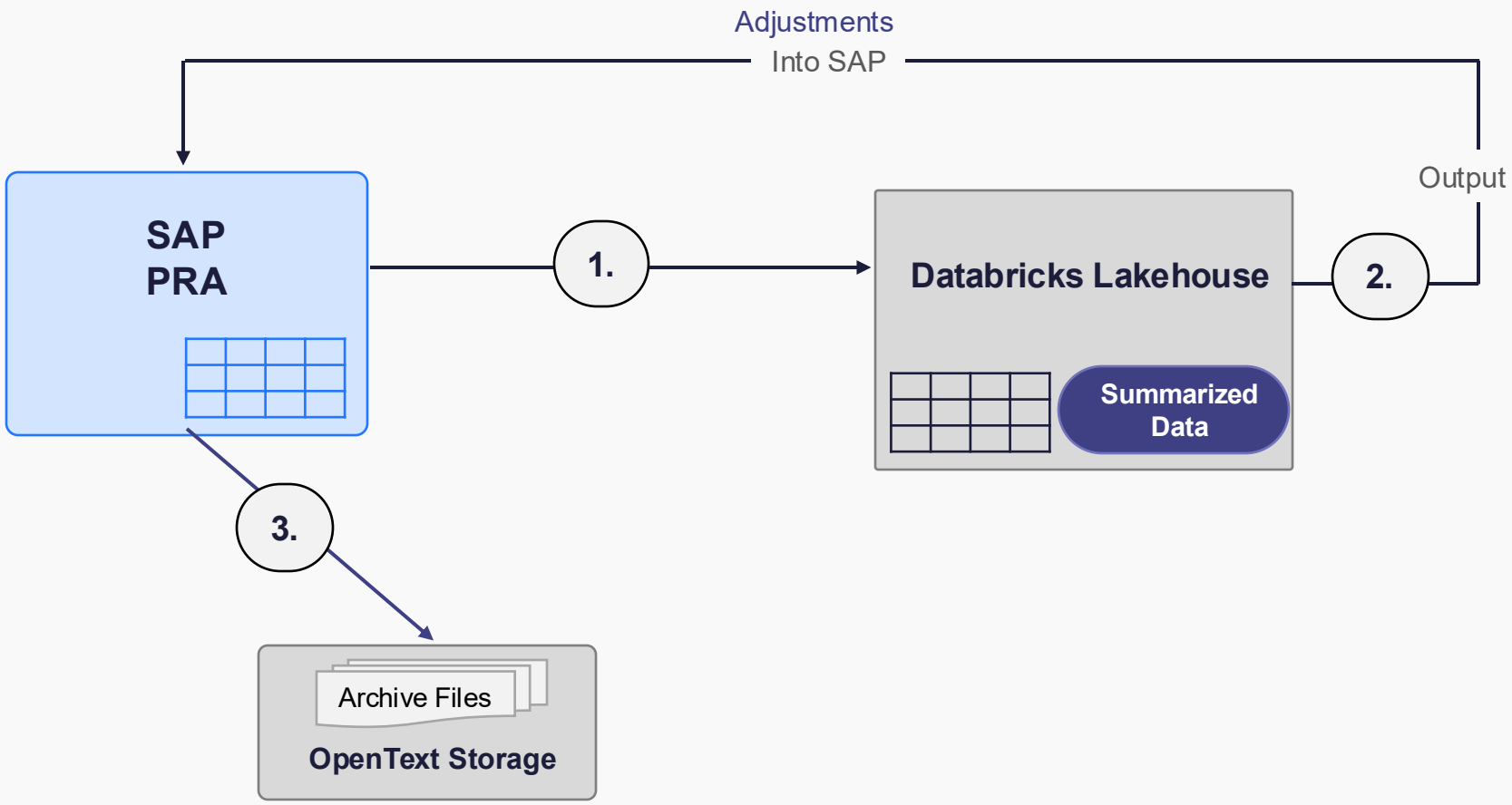
Final Architecture



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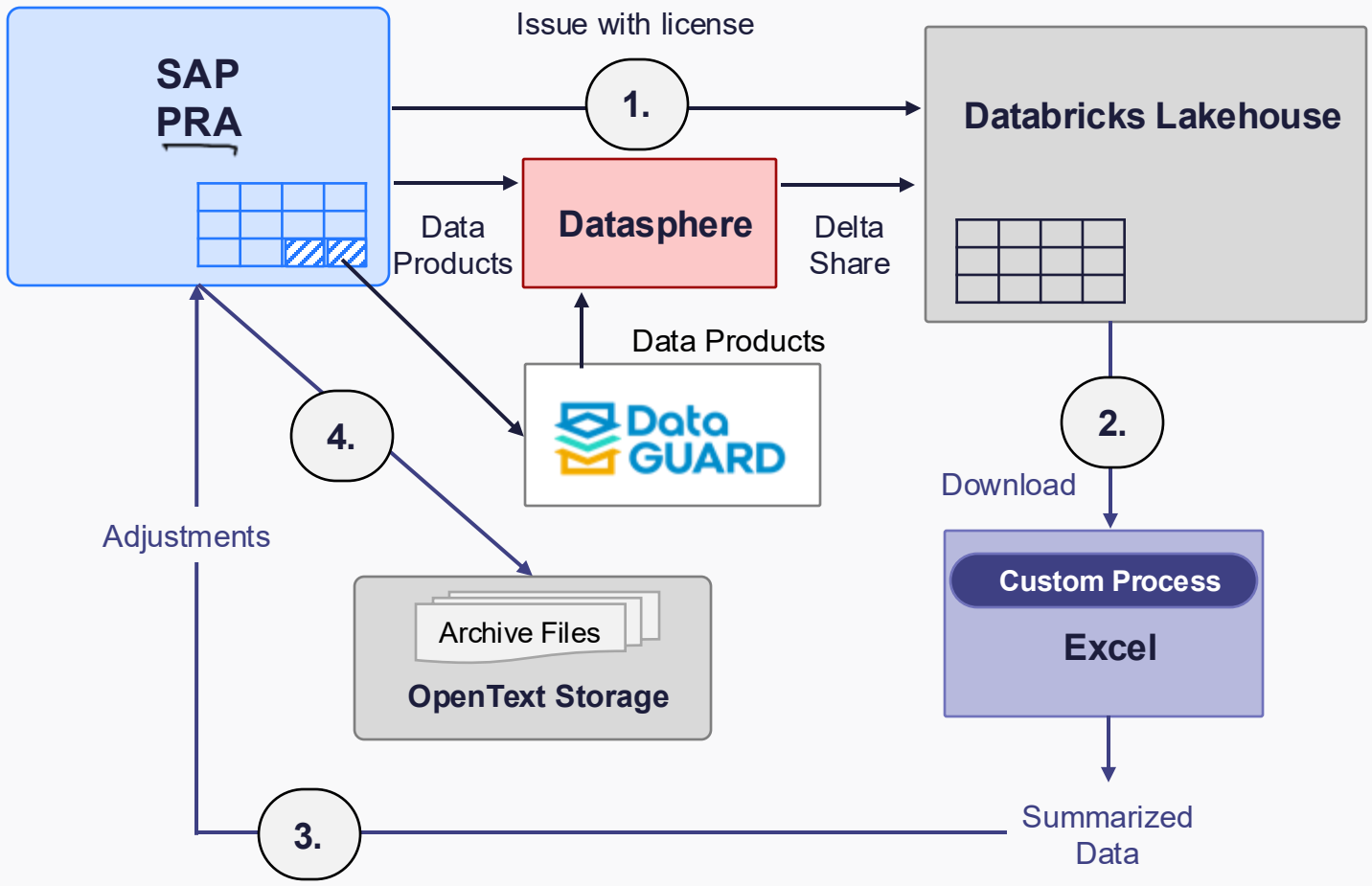

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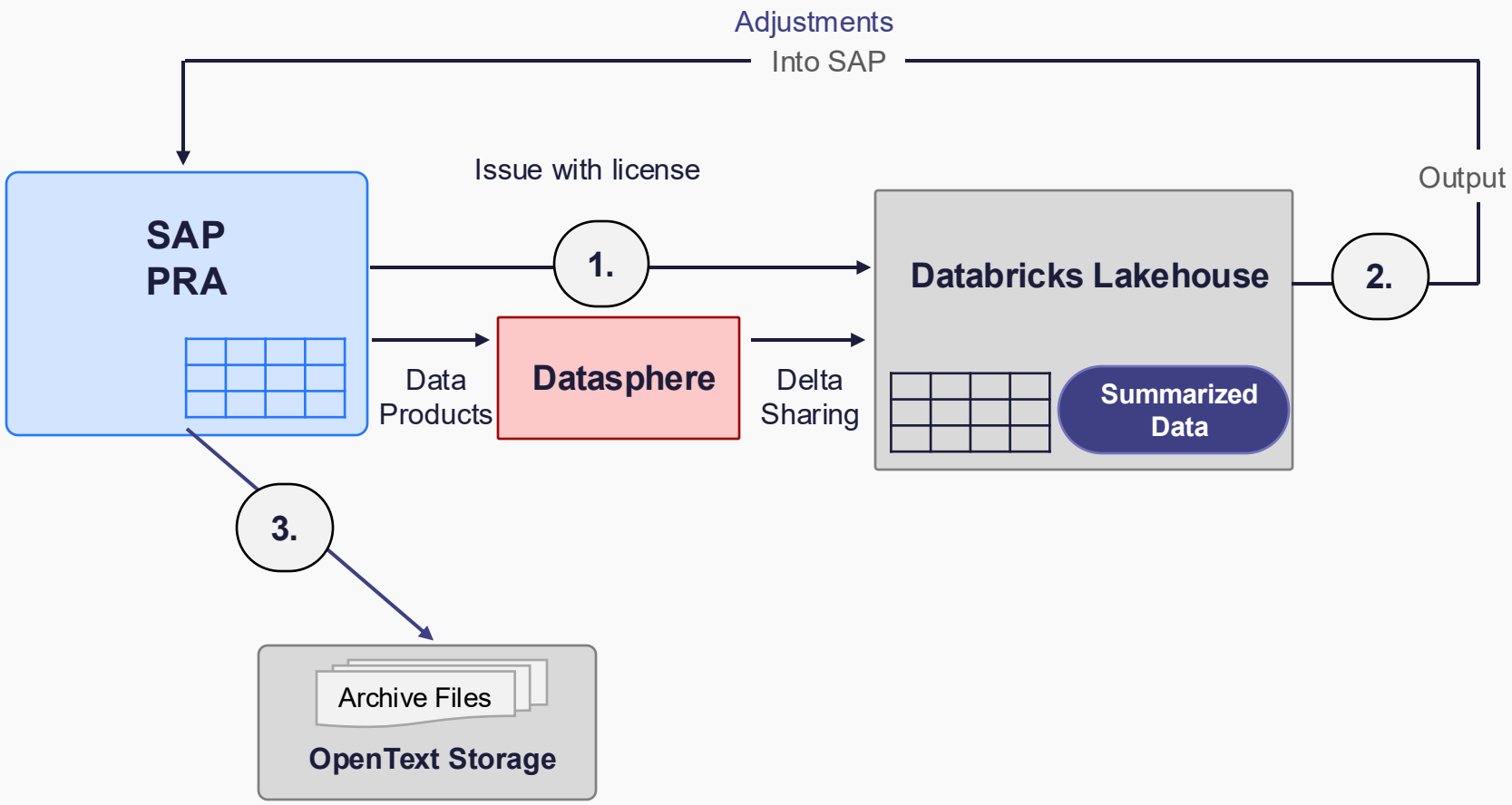

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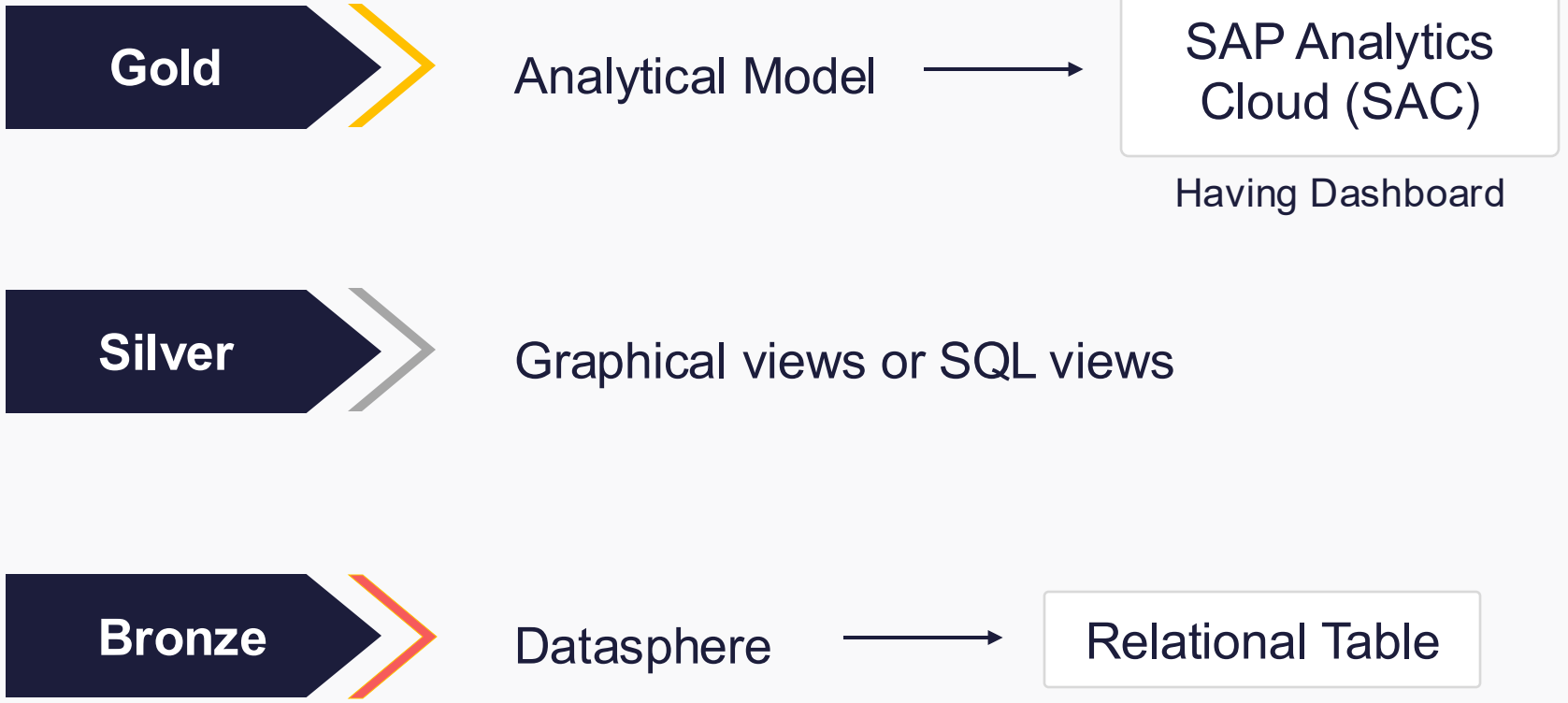
Medallion Architecture



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Moving to BW PCE with Auritas

- Extensive knowledge migrating from HANA and non-HANA databases to BW PCE
- Auritas has decades of experience working with BW
- Experience with end-to-end migrations from on-premise to the cloud
- Expertise with NLS (near-lining) in your BW environment – take only what you need to PCE
    - Save costs, reduce migration timeline, retain data access and reduce risks

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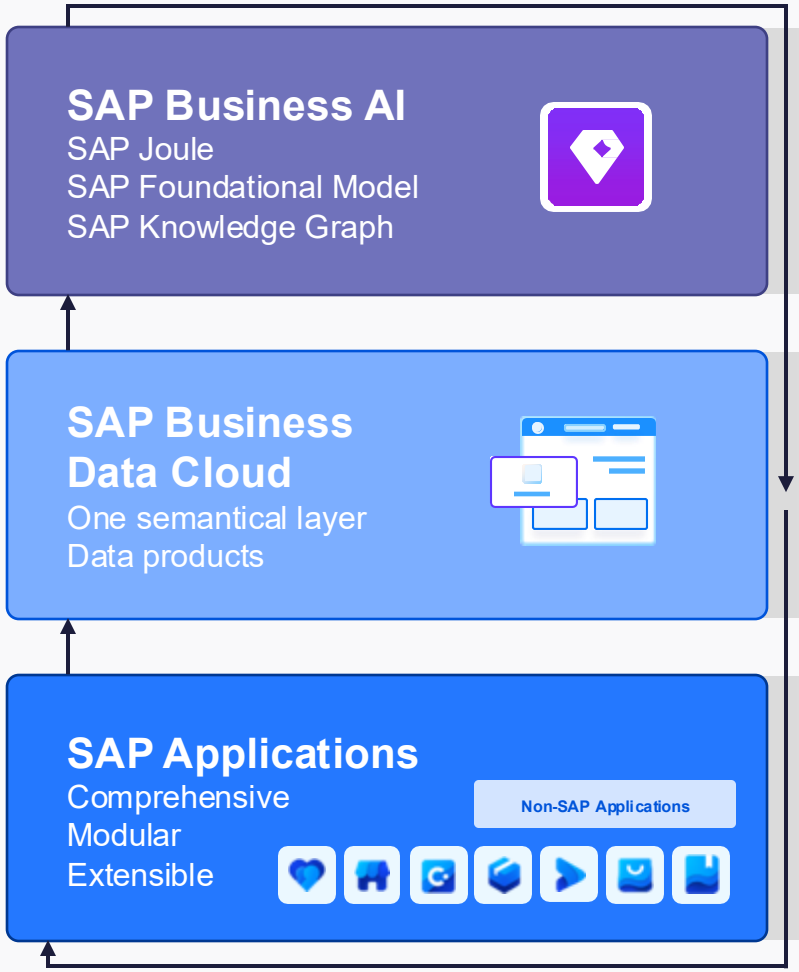
SAP Business Data Cloud

Realizing our vision by bringing together applications, data, and AI



Unrivaled AI

With SAP Business AI collaborative agents are deployed and orchestrated to enhance operations, drive real time insights, and optimize decision making at scale unlocking capabilities other can't match.

Unmatched Data

With SAP Business Data Cloud your most valuable business data from every part of your business turns into a semantically rich data treasure that fuels unrivaled AI powered value for your business.

Unparalleled Applications

With SAP's applications and our technology platform every part of your business is deeply connected, delivering end to end transformational value to your business processes.

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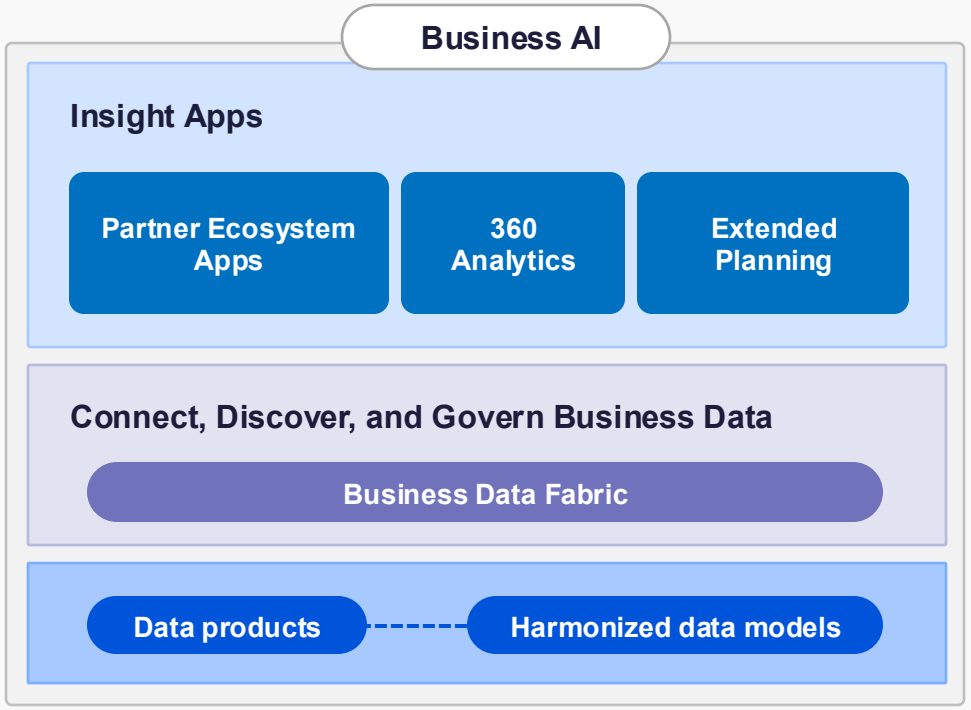
SAP Business Data Cloud



- **Evolution of the Business Data Fabric** journey which started in 2023 with SAP Datasphere and SAP Analytics Cloud powered by SAP HANA Cloud.
- **Next pivotal steps in SAP's data strategy** on delivering out-of-the-box always-on data products following a harmonized data model to provide scalable access without duplication to reduce time to value.
- **Adapting to the rapidly evolving needs** by adding more services such as use cases such as generative AI, data products with rich semantics, and analytical insight apps.

SAP Apps

Hybrid | SaaS | Cloud Native | On Premises | Edge **Non-SAP Data**

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SAP Business Data Cloud BW Modernization Architecture

SAP Business Data Cloud

Insight Apps

SAP Analytics Cloud
BI, Joule, Planning

BDC Cockpit
- Entitlement Management
- Data Product Installation
- Security and Governance

SAP BW PCE/PTO
- Data Product Generator

SAP Datasphere
- Semantics
- Joule
- Knowledge Graph

Partner Connect

SAP Databricks
- Zero Copy
- Bi-directional sharing
- Custom AI/ML

Object Store
Standardizing data ingests for SAO LoBs

Data Products
(based on canonical data model)

Custom Data Products
(based on S/4HANA Z-CDS-Views,
Custom management Source Systems, SAP BW, Partners or Databricks)

SAP LoB Systems
SAP Managed

- S/4HANA PCE
- ISBN
- HCM
- CX
- Sustainability

Customer LoB Source Systems
Customer Managed

- S/4HANA On-Prem
- BW
- ECC

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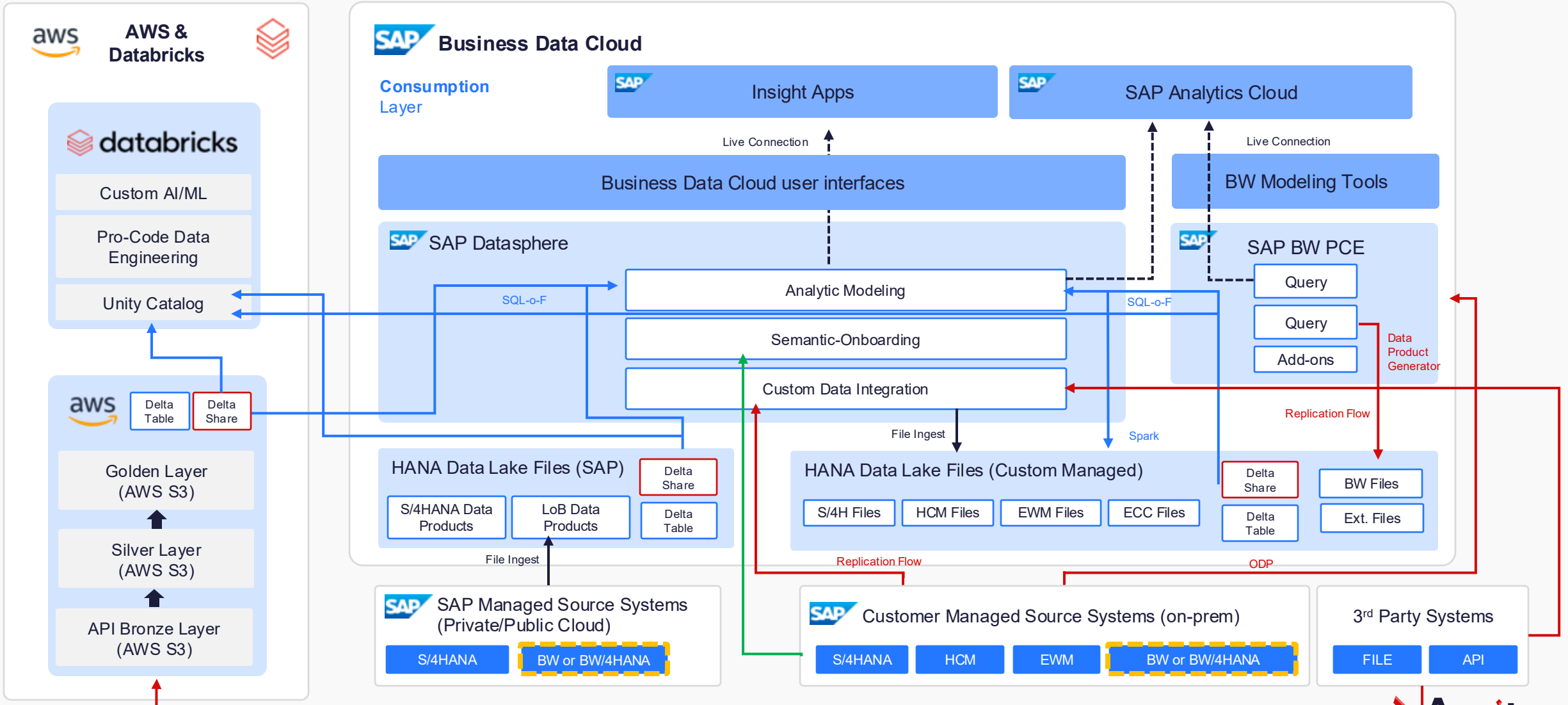
SAP Business Data Cloud

Architecture customer-managed Databricks & SAP cloud/on-prem



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Data Products

What is a data product?

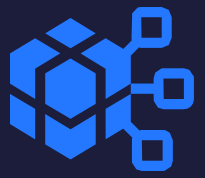
Organize SAP data through data products

Business Data Sets

Master and transactional objects/entities, analytical data sets, config data, etc. all semantically aligned

Well Described

via rich metadata descriptions and including semantics



Easily Consumable

Simple SaaS access from data modeling and BI tools, while fully integrated with data engineering tools

Discoverable

via an SAP data product catalog

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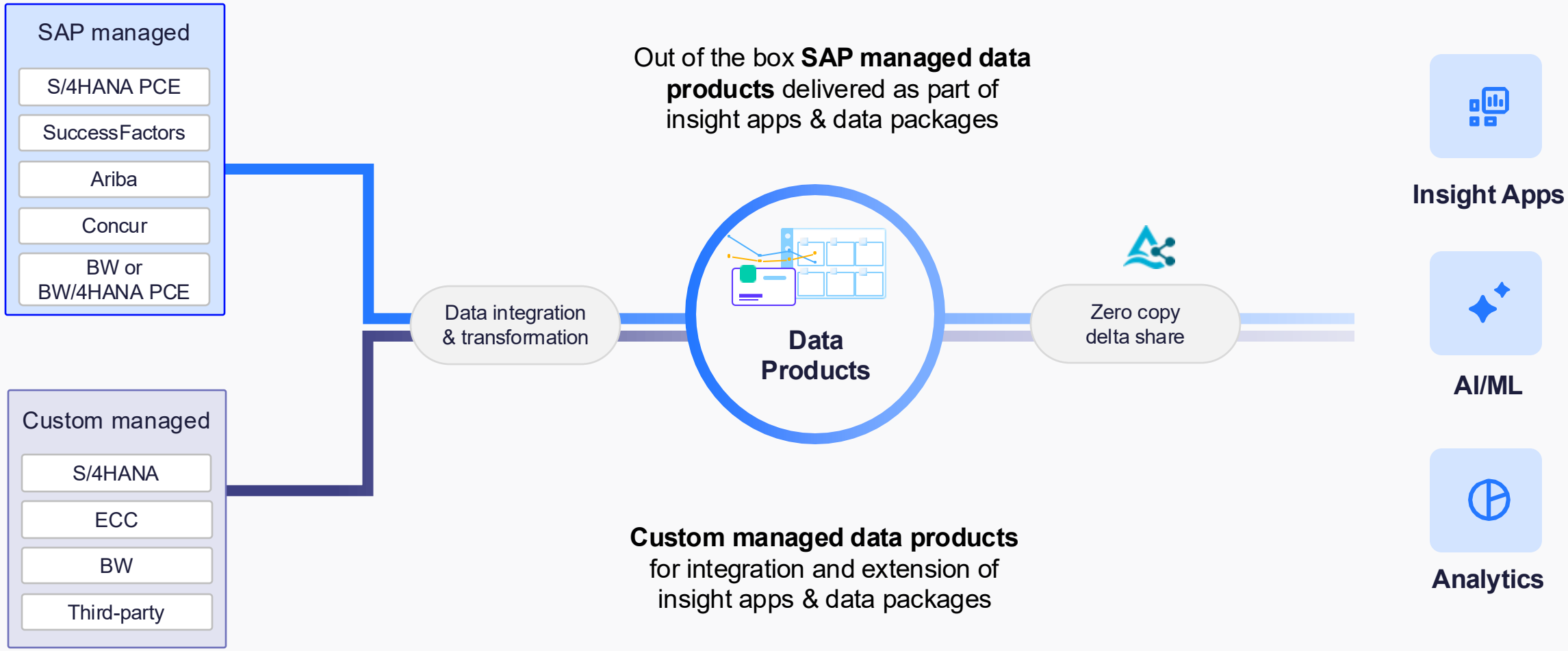
Establish a Data Product Economy to serve multiple use cases



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SAP BW Modernization Adoption

Protect your SAP BW Investments & Modernize

SAP Business Data Cloud lets you move your SAP BW system to the cloud (PCE), safeguard your investments, and use SAP BW data in SAP Datasphere, SAP Databricks*, and approved 3rd party apps.

LAND
SAP BW PCE

- Benefit from SAP managed data products and insight apps
- Leverage BW data as a data product by lifting SAP BW to the cloud (PCE)
- Take advantage of an SAP managed environment, removing hardware maintenance and lowering TCO

EXPAND
SAP BW data products

- Implement new use cases using BW data products with direct access via the object store of SAP Dataphere
- Take advantage of defined BW data products to match your needs for further data transformation and modelling
- Benefit from the open partner ecosystem and create ML/AI use cases using BW data products in SAP Databricks*

ADOPT
Data products & insight apps

- Benefit with RISE also for the SAP BW journey following a clean core strategy
- Move SAP BW workflows from a customer managed, centralized on premise data warehouse to a lakehouse architecture
- Leverage data products and insight apps offered within SAP Business Data Cloud

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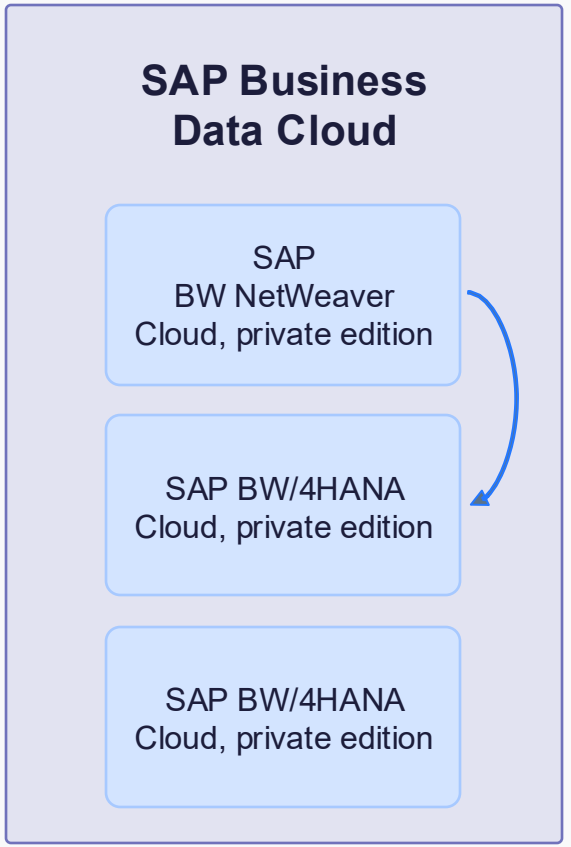
Option 1 – Existing SAP Business Warehouse Cloud, private edition Customers

- Existing SAP BW NetWeaver or SAP BW/4HANA PCE and PTO have the easiest upgrade path
- Existing BW or BW/4HANA PCE/PTO Tenants will be “re-wired” into the Business Data Cloud
- The majority of the migration effort will be undertaken by SAP depending on the SOURCE release and the target BW Version
- Both Shell and Remote Conversions are possible again depending on the target BW Version



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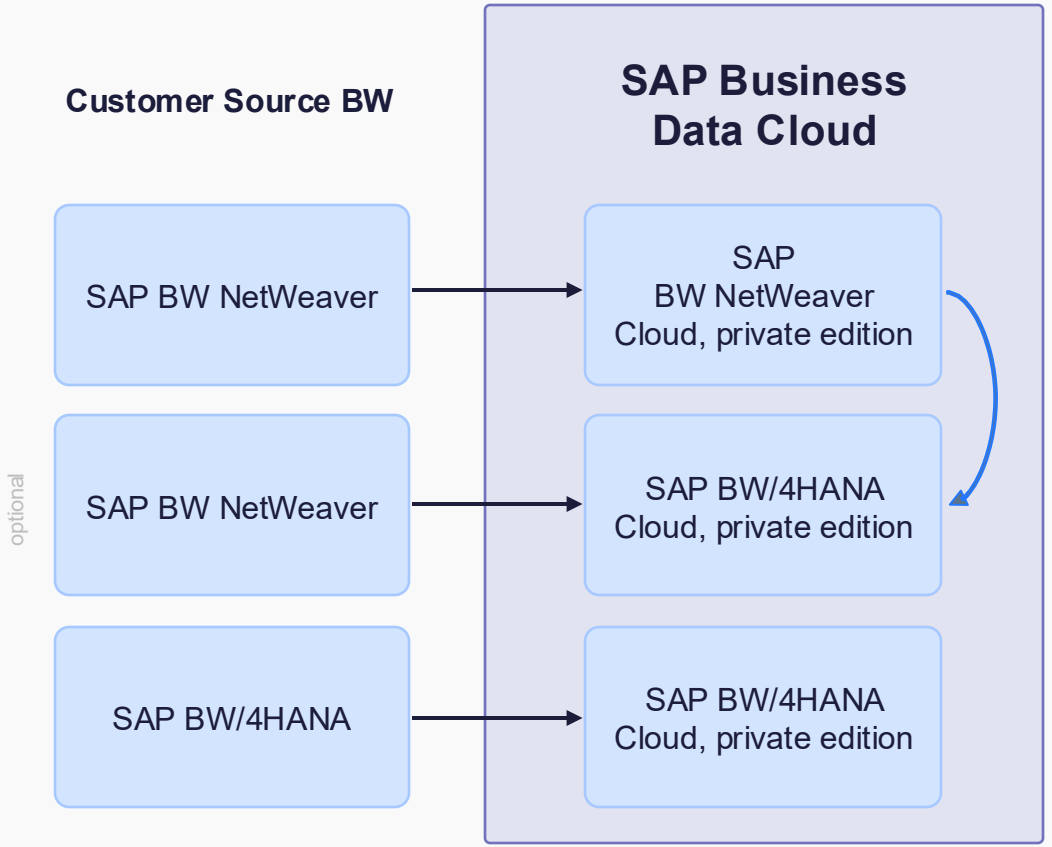
Option 2 – Transitioning for existing SAP Business Warehouse Cloud Customers

- Lift your existing SAP BW NetWeaver or SAP BW/4HANA on- premises deployment as-is into the private cloud component of SAP Business Data Cloud
- Leverage SAP Services and SAP Partners for their extensive experience with this type of cloud migration
- Include migration from SAP BW on any DB to BW on HANA if required
- Optionally, execute a conversion to SAP BW/4HANA, either during the move to the cloud, or at any point while SAP BW NetWeaver is still supported
- Both Shell and Remote Conversions are possible again depending on the target BW Version



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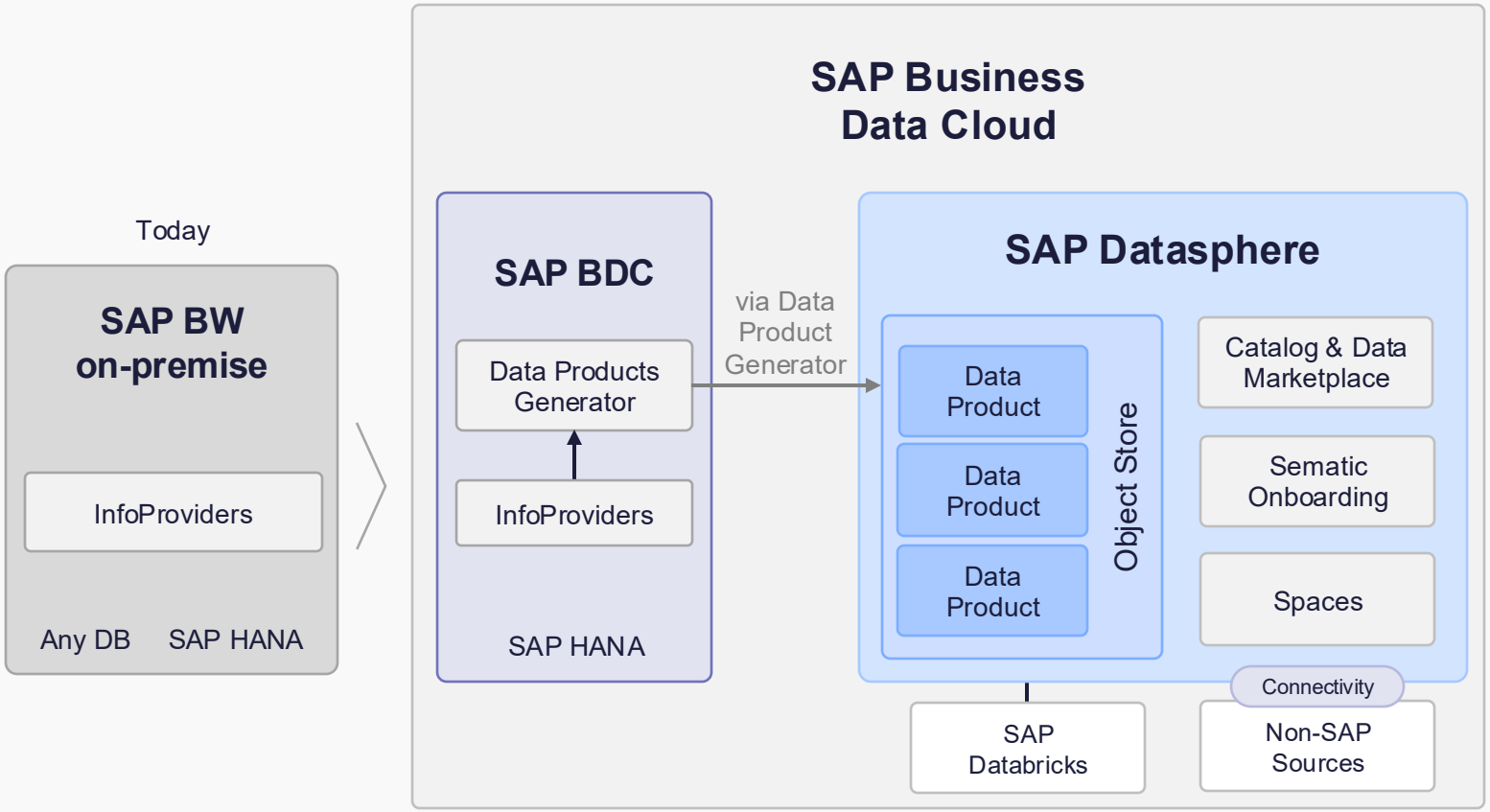
Option 3 – Use the BW Data Products Generator

- No conversion to SAP BW/4HANA required*
- Cloud migration support
- Partially SAP-managed solution
- Reduce TCO
- Data product generator for SAP Business Data Cloud
- Allows BW data to be shared directly with SAP Databricks using Delta Sharing
- Data stays



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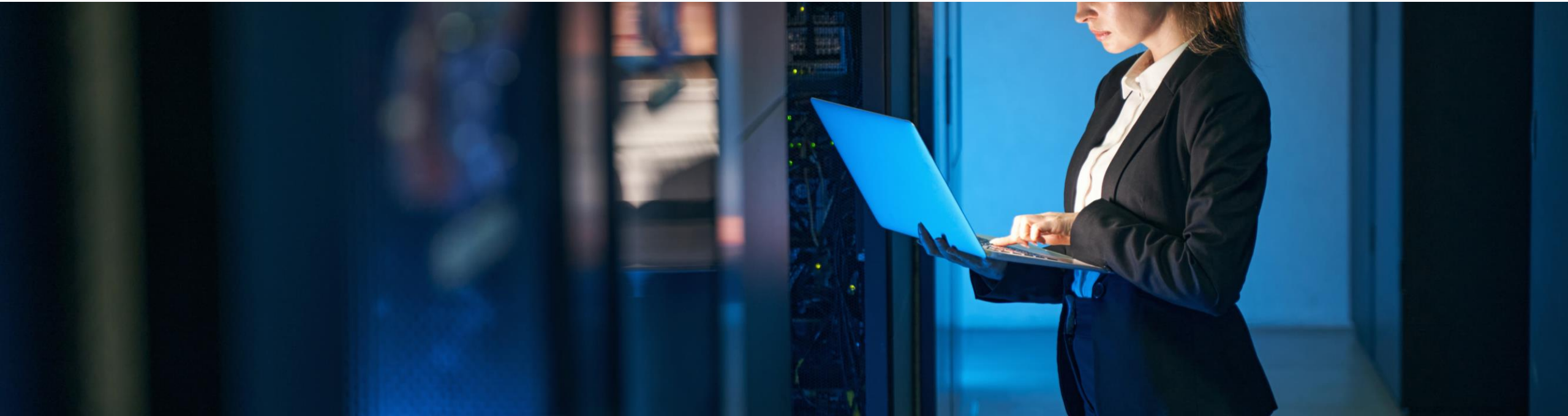
BW with SAP Databricks Integration *

*SAP Databricks will be part of GA version due 1st April;2025



SAP Business Data Cloud and SAP Databricks

- Serverless lakehouse platform of Databricks for AI/ML, data engineering, and SQL workloads, available as part of SAP Business Data Cloud.
- Fully integrated with SAP BDC to offer data science and data engineering capabilities.
- Seamless experience for sharing SAP data with SAP Databricks* for AI/ML scenarios.
- Bi-directional sharing of data between SAP Business Data Cloud and SAP Databricks using delta share eliminating need to copy data in multiple places.
- Providing capabilities for data engineer, data scientist, and data analyst personas to collaborate on AI/ML use cases

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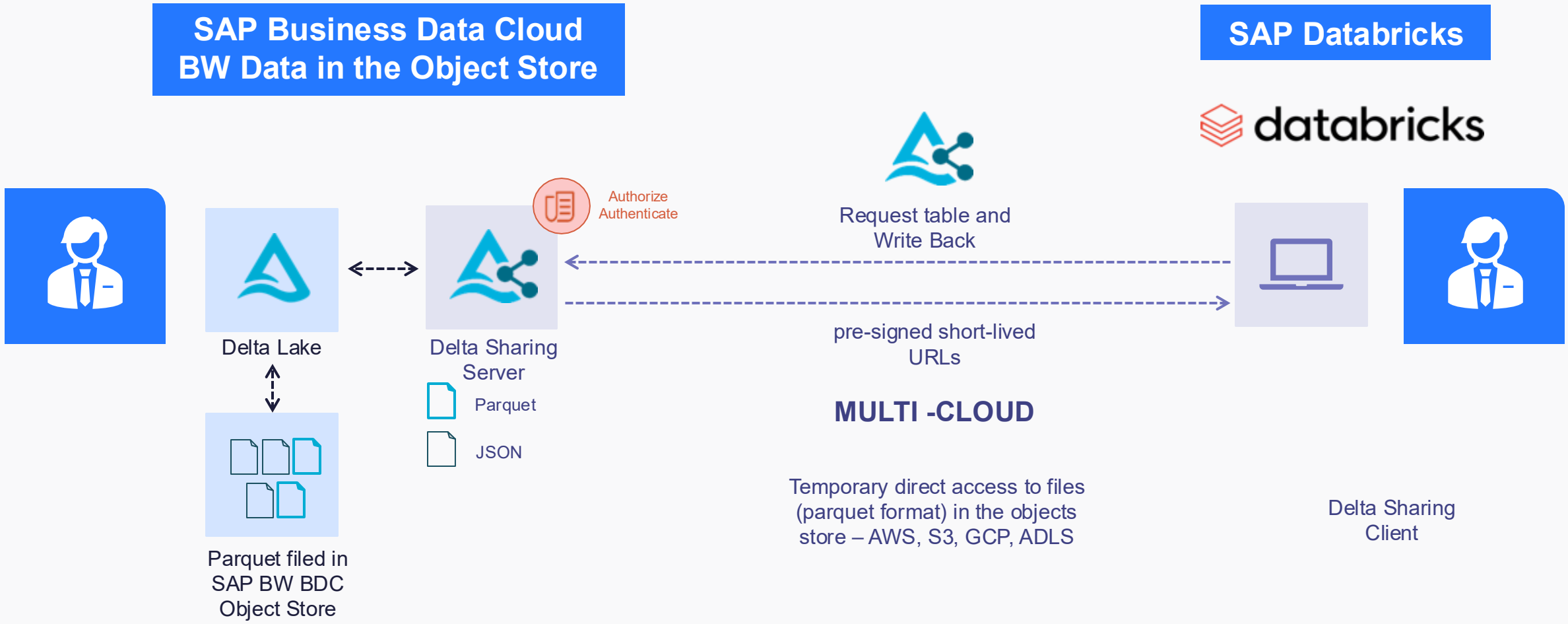
How Bi-Directional Delta Sharing works



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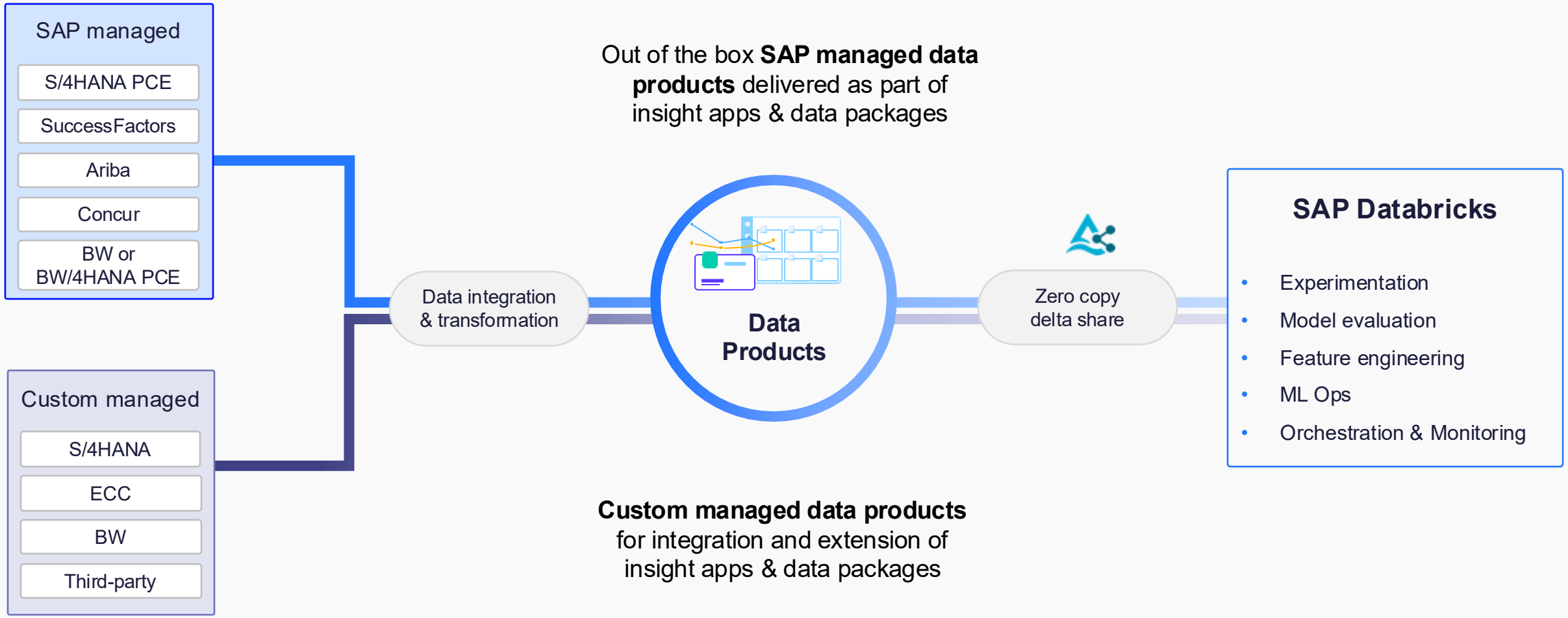
Easily access SAP and custom data products in SAP Databricks* for AI/ML use cases



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Roadmap

SAP Business Data Cloud

Early-stage Data Products roadmap

LoB	Q1.2025 (Beta)	Q2.2025	Q3.2025	Q4.2025	Q1.2026
ERP PCE	• S4H Finance and Sales [~45]	• Further S4H core domains [~78]	• Primary data products for first BTP apps [~140 + derived data produc		
BW4/BW PCE		• BW InfoProvider components available as data products from PCE versions		• BW InfoProvider components available as data products from the PTO versions	
HCM		• Employee Central [~50] • Learning [~25] • Skills[~15]	• Time [~10] • Recruiting [~45] • Talent [~30]	• Scope round-up and derived data products	
ISBN		• Source to Contract [~70] • Spend Control Tower [~100]	• Requisition-to-Order / Purchase Requisitions Invoicing [~100] • Fieldglass [~60]	• Concur (tbd)	
I&CX		• Primary Data Products for Sales Cloud [~5]	• Primary data products for Service Cloud [~5] • Business Partner [~5]	• ESM (tbd)	
Sustainability		• Environmental data (S4H source)	• Foundational ESG metrics (SCT) • Carbon footprints (SFM)		• Sustainability domain model

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SAP Business Data Cloud functional roadmap

Launch

Insight apps & data products
- Insight app for Core Enterprise Analytics - Working Capital Dashboard
- >30 Cloud ERP data products

Administration
- SAP Business Data Cloud cockpit for component provisioning, lifecycle management and installation of insight apps and data products
- SAP Business Data Cloud unified catalog for exploration, installation and consumption of data products
- Integration of Collibra data catalog in SAP Business Data Cloud catalog

BW modernization
- Integration of SAP BW[/4] PCE as part of SAP Business Data Cloud

AI
- Run SAP Analytics Cloud JustAsk NLQ queries against SAP Business Data Cloud data

March/April 2025

Insight apps & data products
- ~4 new Cloud ERP data products
- ~4 new Intelligent Spend & Business Network data products

AI
- SAP Databricks solution in SAP Business Data Cloud

Q2 2025

Insight apps & data products
- >100 new Cloud ERP data products
- ~4 HCM Insight Apps
- >30 new HCM data products
- >100 new Intelligent Spend & Business
- Network data products
- >10 new Customer Experience data products
- >5 new Sustainability data products

Administration
- Zero copy sharing with delta share protocol as alternative for replication for Datasphere and Databricks
- Monitoring health and status of Business
- Data Cloud components

BW modernization
- SAP BW[/4] PCE customer managed data products

AI
- Joule availability across Business Data Cloud
- SAP Knowledge Graph within Datasphere
- Sharing of data products from Databricks to
- Business Data Cloud
- Bi-directional integration between brownfield Databricks via partner connect service

Planned

Insight apps & data products
- >30 new Cloud ERP data products
- Cloud ERP data products and insight apps enabled for SAP S/4HANA Public Cloud edition (with version 2508)
- >50 new HCM data products
- ~5 new Intelligent Spend & Business Network data products
- >20 new Customer Experience data products
- ~4 new Sustainability data products
- “Pro insight apps”: insight apps extended to
- BTP Build solutions

Administration
- Zero copy sharing extension to Iceberg
- format
- Bi-directional catalog integration with Collibra
- Option for technical & commercial transition of existing Datasphere and SAP Analytics Cloud customers to SAP Business Data Cloud

AI
- Bi-directional integration between Business Data Cloud and SAP’s native ML workbench AI Core
- Deploy agents in SAP Business Data Cloud to perform agentic workflows like financial planning, data modeling and system operations

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Benefits of SAP Business Data Cloud

Bringing together SAP BW and Non-SAP applications, data and AI in a SaaS experience

Unified and scalable data platform for all curated SAP BW data

Context aware insight apps and business-ready BW data products using InfoProviders

Pivotal evolution of the business data fabric

Data science and ML use cases using SAP Databricks

Path for SAP Business Warehouse modernization

Scale through ecosystem Integration with advanced sharing and data exchange

Re-Use Existing BW Investments

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Thank you.

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