



High Performance Data Connectivity to Cloud Data Sources



Today's Session

Key Topics

- SAP Analytics Cloud Connectivity
 - Live Data Gateway Overview & Cloud Sources
 - Relational Data Connectivity
 - Expanded Modelling Capabilities
 - OLAP Data Connectivity
 - SAP Sources Connectivity - LOB, DWC
-
- Q&A – see webinar console

Today's Presenters



ALLAN PYM

Chief Operating Officer
APOS



ALAN GOLDING

Solution Consulting Manager
APOS

Who is APOS?

- Formed in 1992
- Enabling BI platform management, administration, migration, governance and compliance
- Simplifying, automating, extending SAP BusinessObjects and SAP Analytics Cloud
- Strategic SDK development and consulting
- Hundreds of customers globally



APOS



**SAP
BusinessObjects**



Hybrid BI



**SAP
Analytics Cloud**



EXTEND
SAP ANALYTICS



HOUSEKEEPING



You will have access to the slides via email



You will get the recording within 24 hours

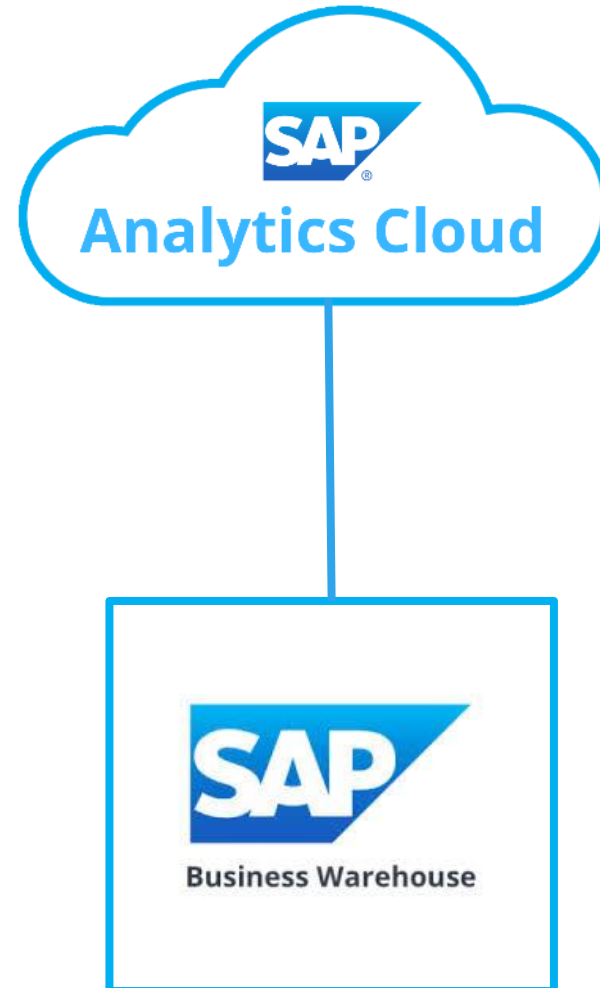


Tell us how we did in the survey

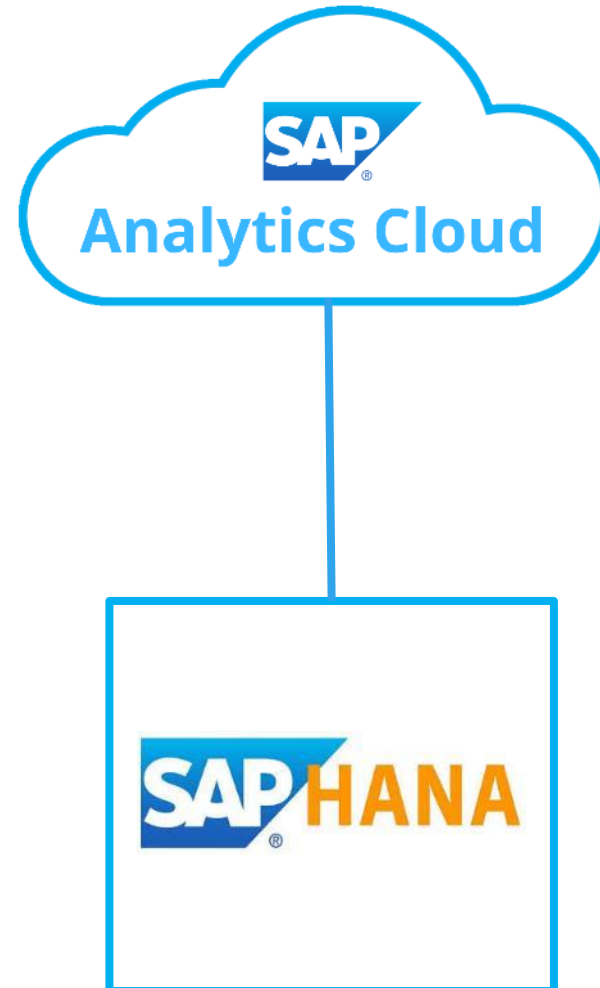
SAP Analytics Cloud - SAC



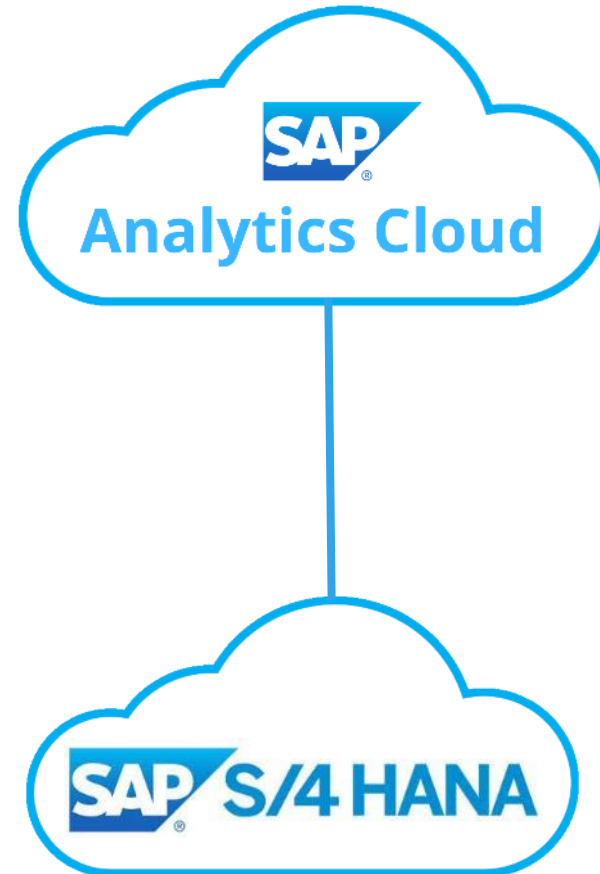
SAC Connectivity



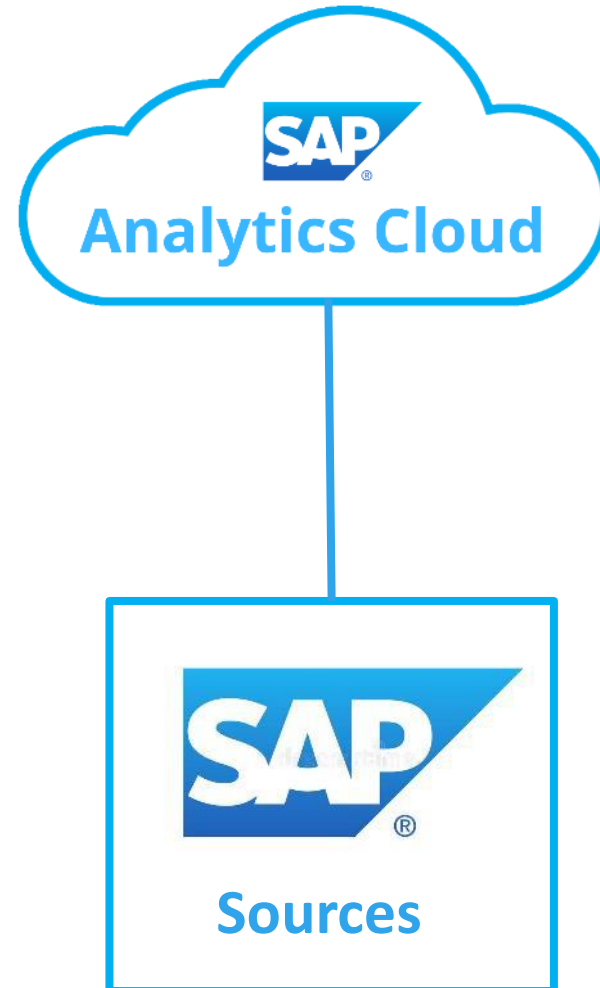
SAC Connectivity



SAC Connectivity



SAC Connectivity



Live & Import Connectivity



Import Connection

Data moved into SAC data environment
Data uploaded on a schedule, current to last upload
Modelled & secured in SAC
Supports Business Intelligence + Planning

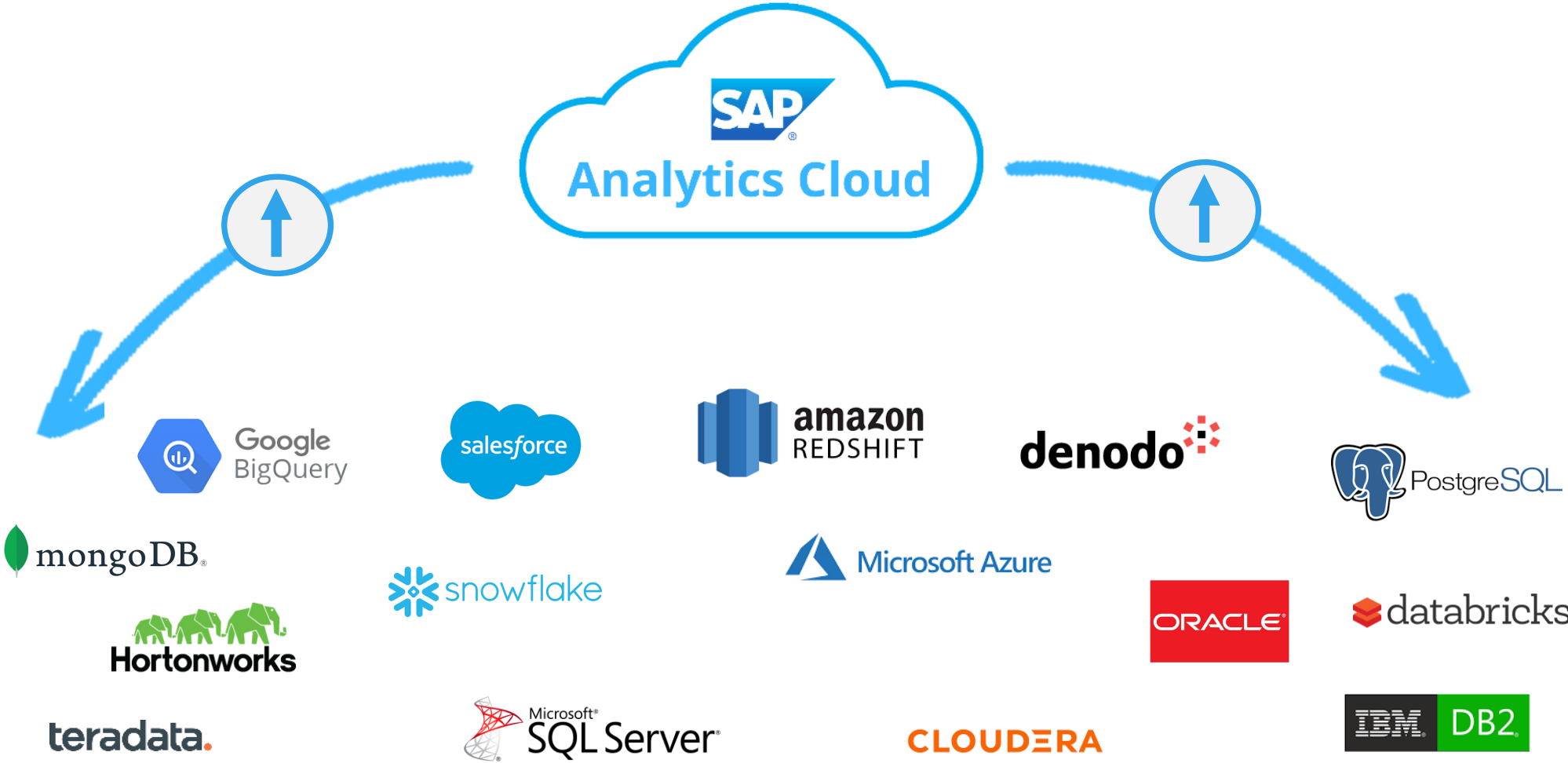


Live Connection

Leverage data from existing location
Data not moved and does not leave, always current
Leverage existing modelling & security
Supports Business Intelligence

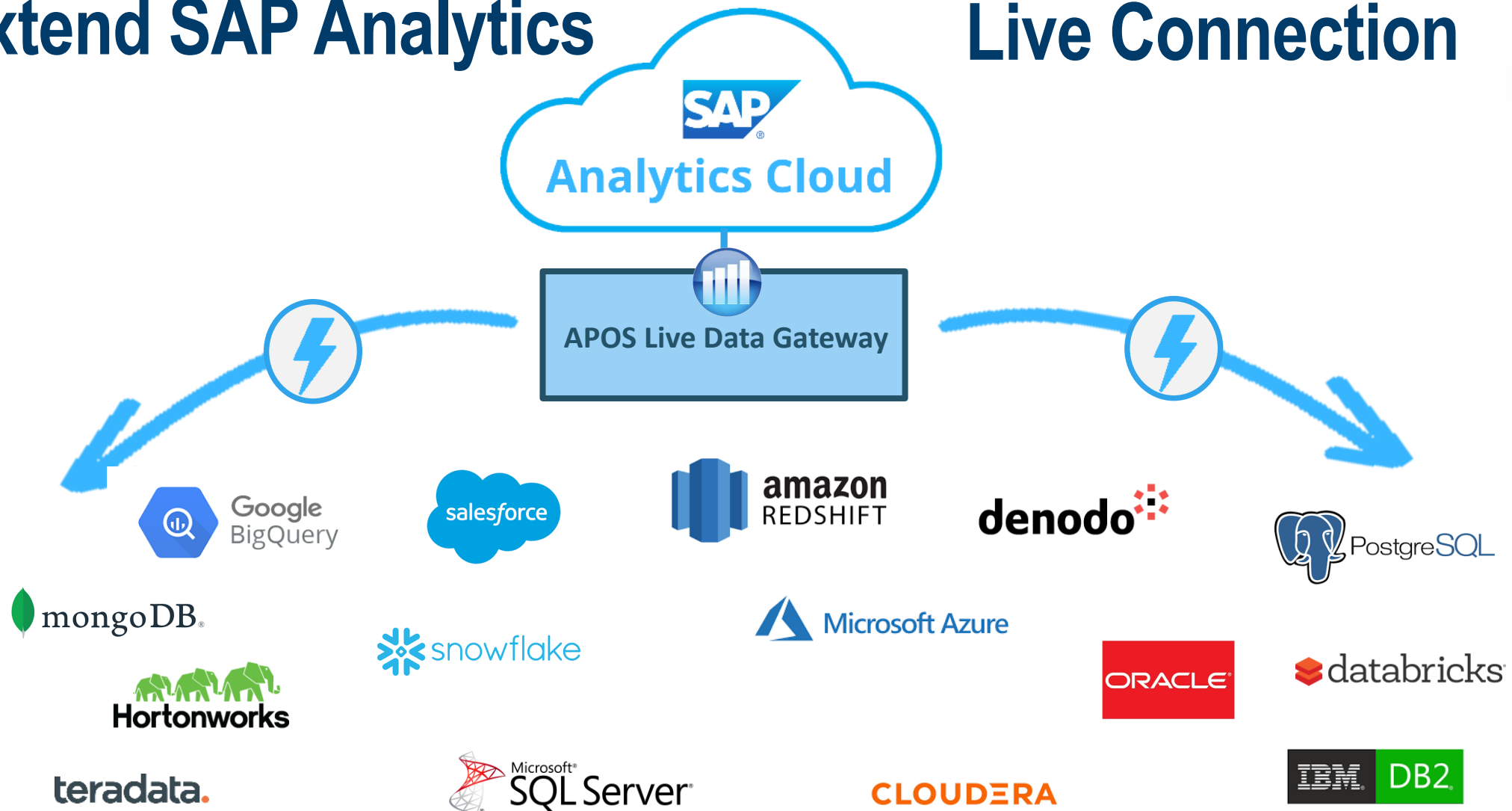


SAC Connectivity to Non-SAP Sources - Import



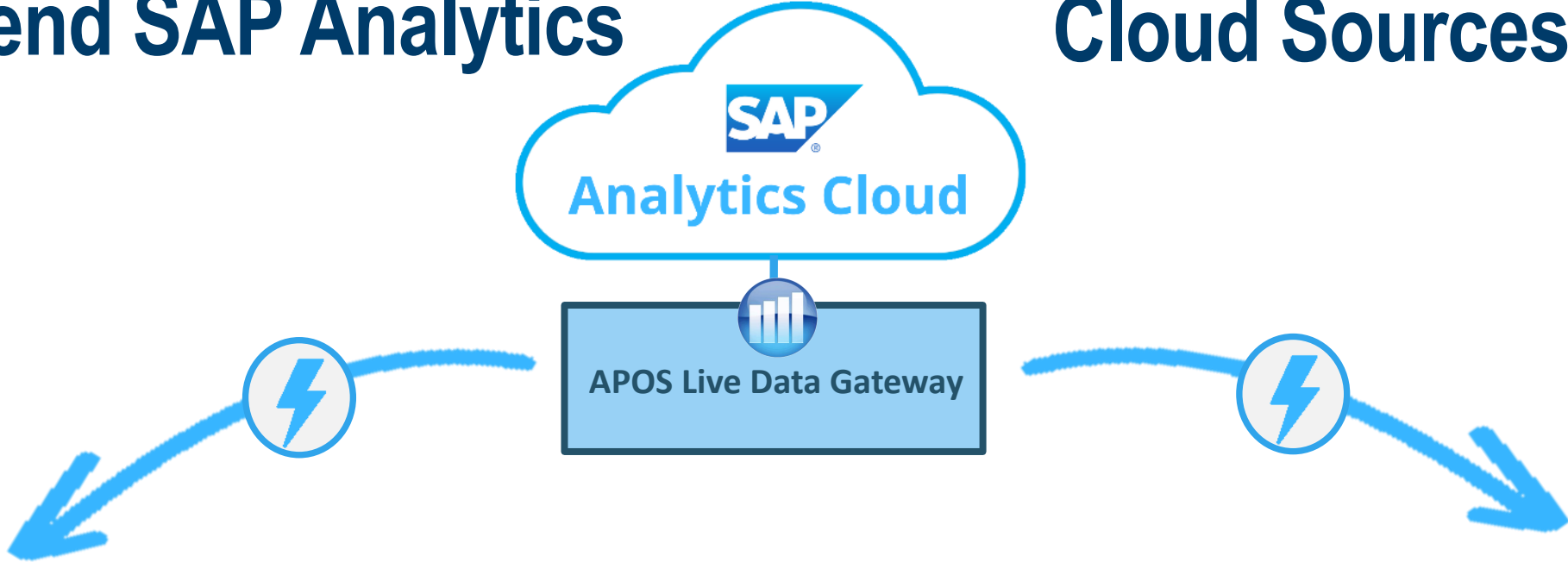
Extend SAP Analytics

Live Connection



Extend SAP Analytics

Cloud Sources



APOS Live Data Gateway – Unlock Live Data



APOS Live Data Gateway is a middleware platform which provides virtualized data connection and data transformation to enable live data connectivity and expanded data source options for SAP Analytics Cloud, with a primary focus on **non-SAP data sources**.



Leverage data from its current location



No movement or importing of data



Leverage existing data modelling



Leverage existing security models



Data is always current



Data never leaves the firewall



No added data storage requirements



Reduce data bandwidth requirements



Available on
SAP Store

APOS Live Data Gateway



Supported Data Sources

- Amazon Athena
- Amazon Aurora
- Amazon EMR
- Amazon Redshift / Redshift Spectrum
- Amazon S3
- Azure Analysis Services
- Azure Cosmos DB
- Azure Data Lake
- Azure SQL Database
- Azure SQL Data Warehouse
- Cloudera
- Databricks
- DB2
- Denodo
- Google BigQuery
- Google Cloud Platform
- Hortonworks
- Informix
- Microsoft SQL Server
- Microsoft Analysis Services
- Azure Blob
- Mongo DB, Mongo DB Atlas
- MySQL
- Netezza
- Oracle
- Oracle Essbase
- Oracle Exadata
- Postgres
- Presto
- Salesforce
- Snowflake
- Sybase IQ, Sybase SQL Anywhere
- Teradata
- SAP BusinessObjects Universes (UNV, UNX)
- SAP BW - version 7.3 and higher
- JDBC connectivity

Extended Data Sources: 100+ Additional data source and application connection options

<https://www.apos.com/content/apos-live-data-gateway-data-sources-supported>

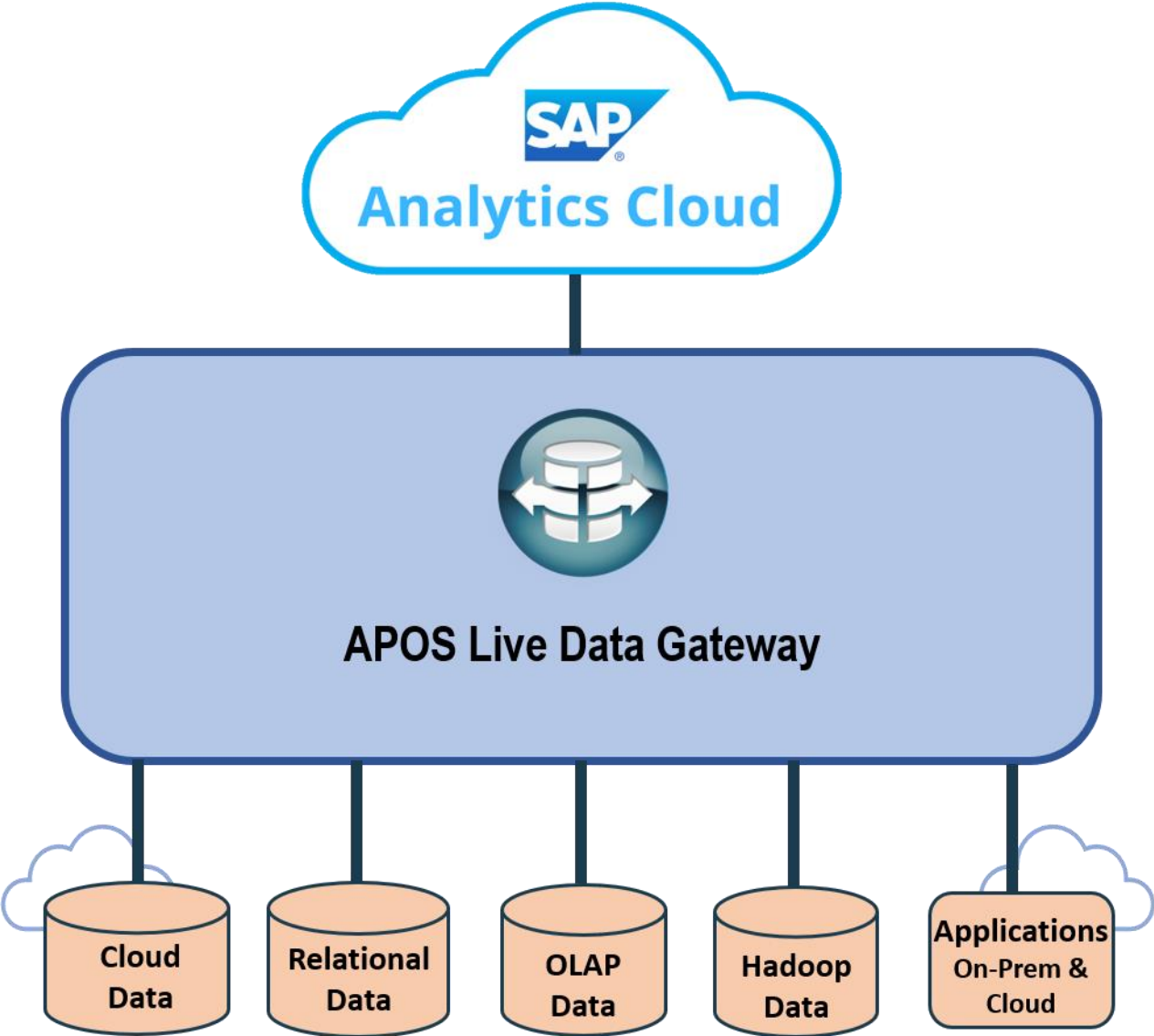


Available on
SAP Store

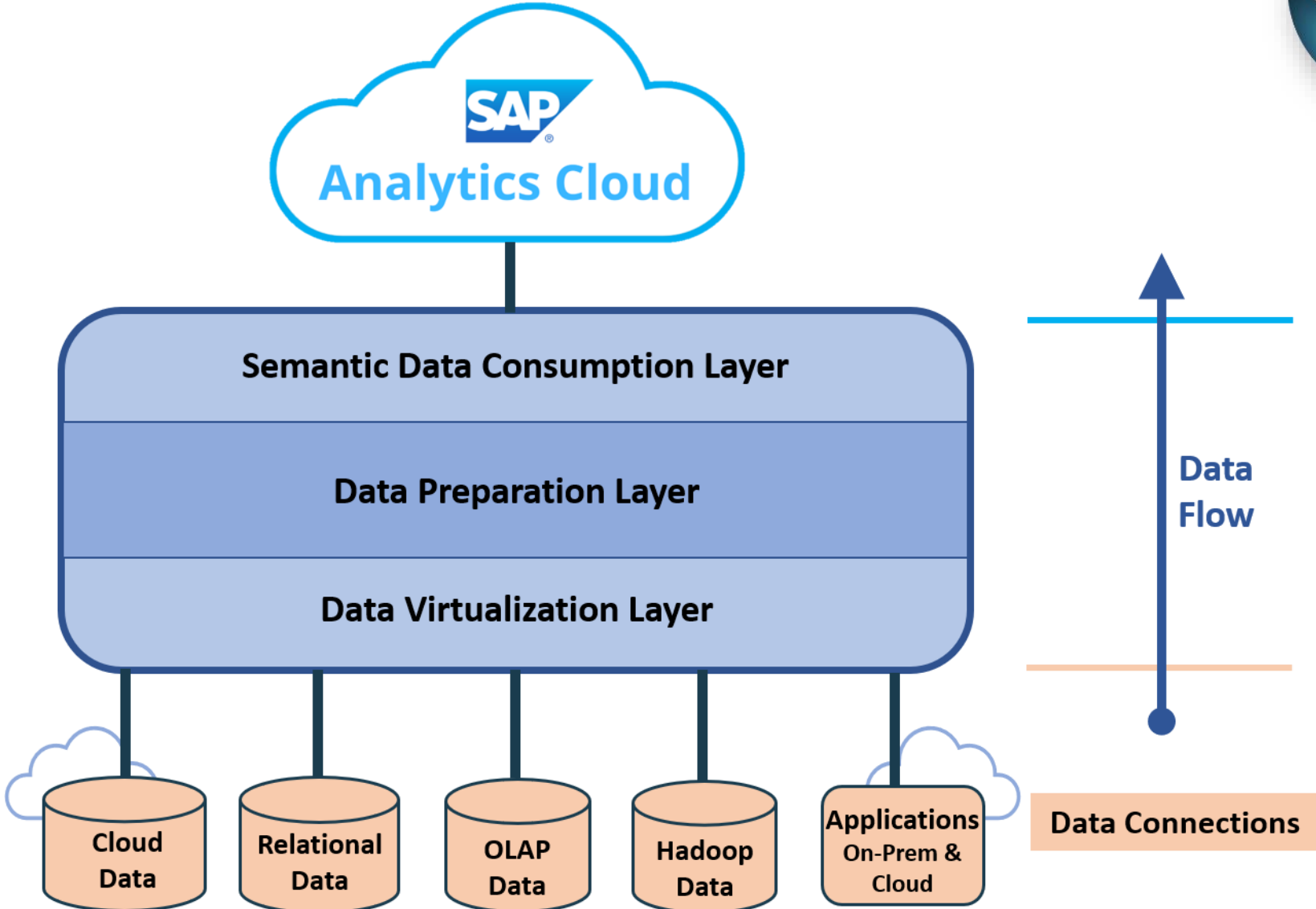


Alan Golding
Solution Consulting Manager
APOS

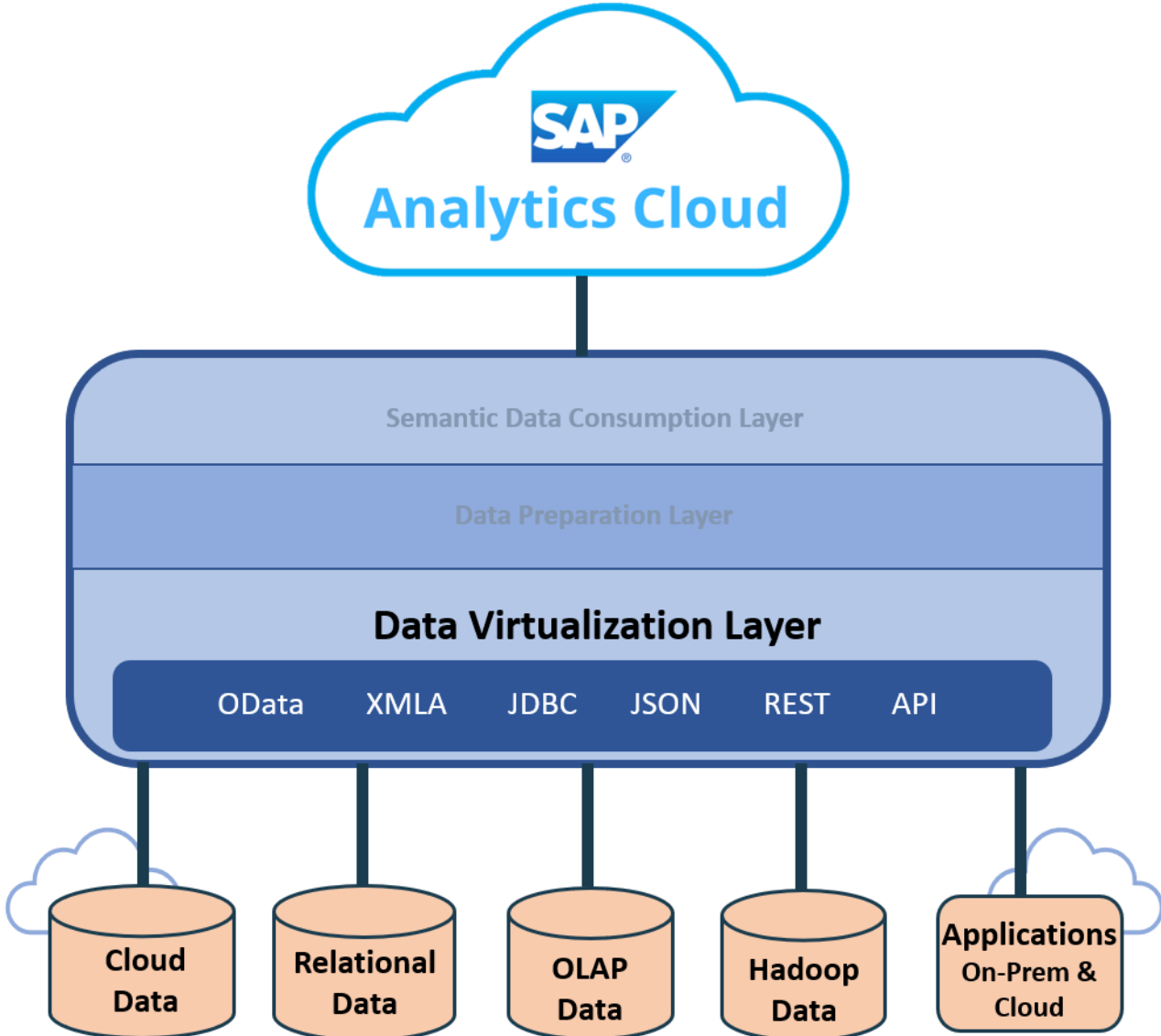
APOS Live Data Gateway



APOS Live Data Gateway



Data Virtualization Layer

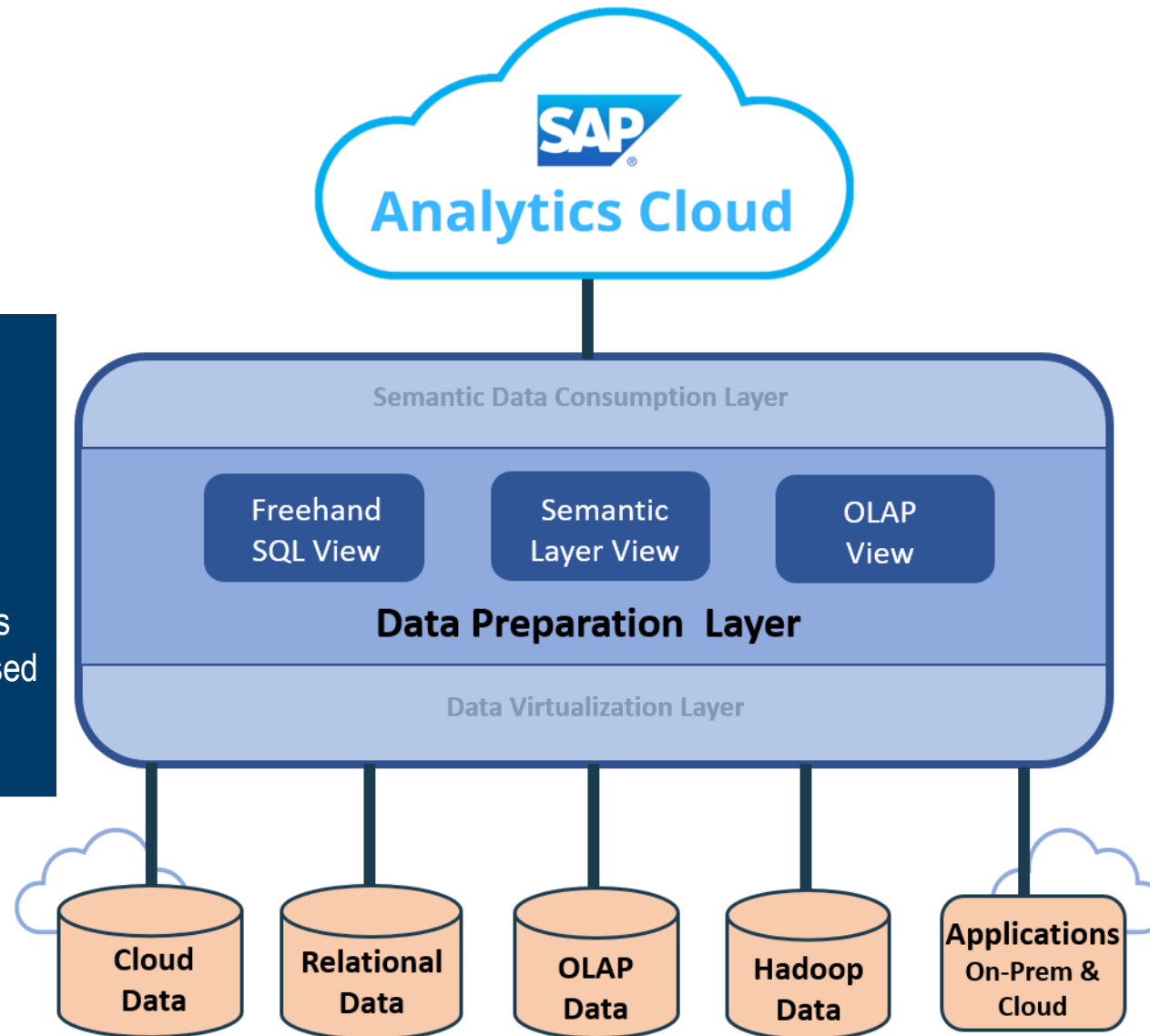


Data Preparation Layer

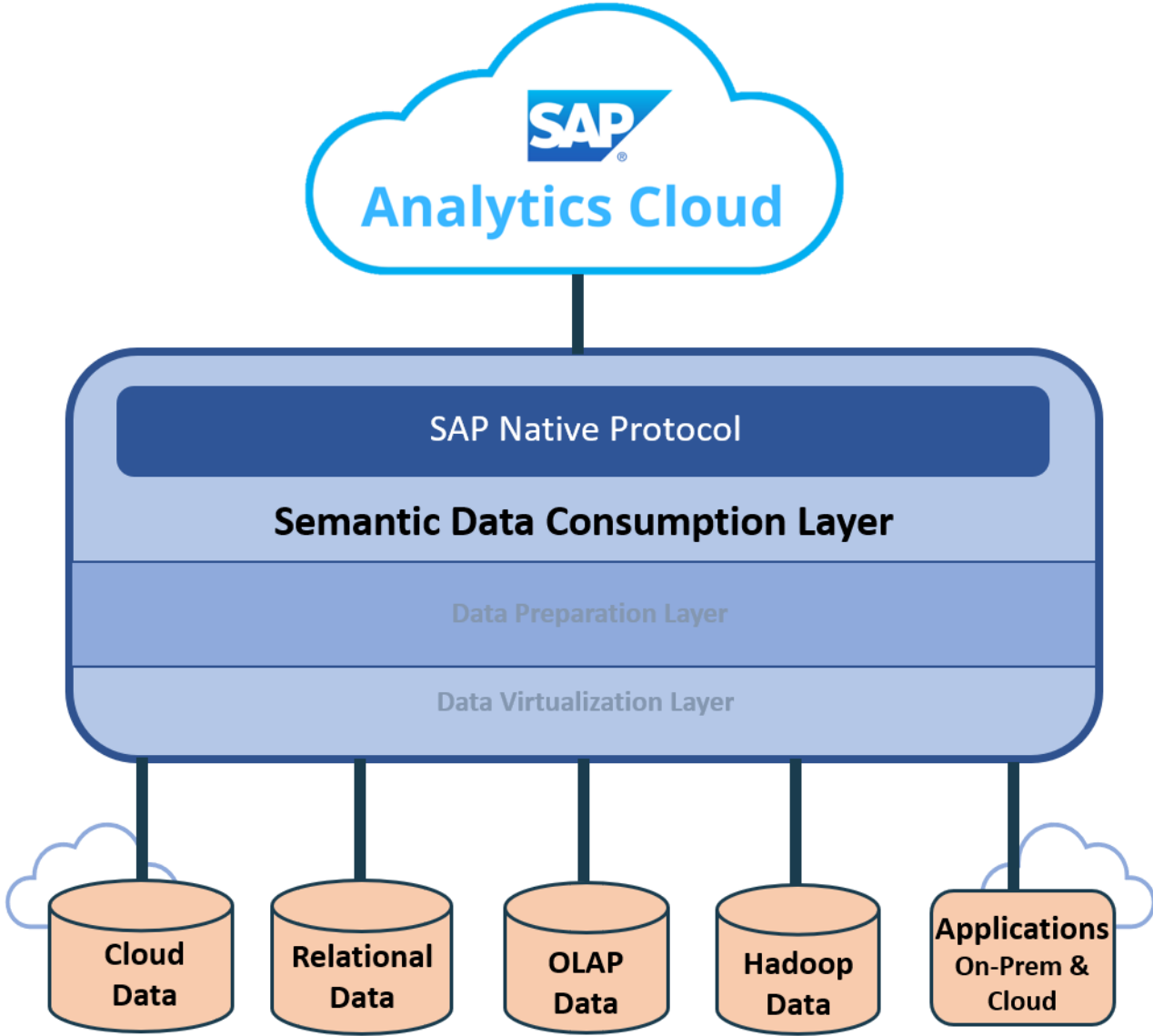


Data Preparation Layer Key Functions

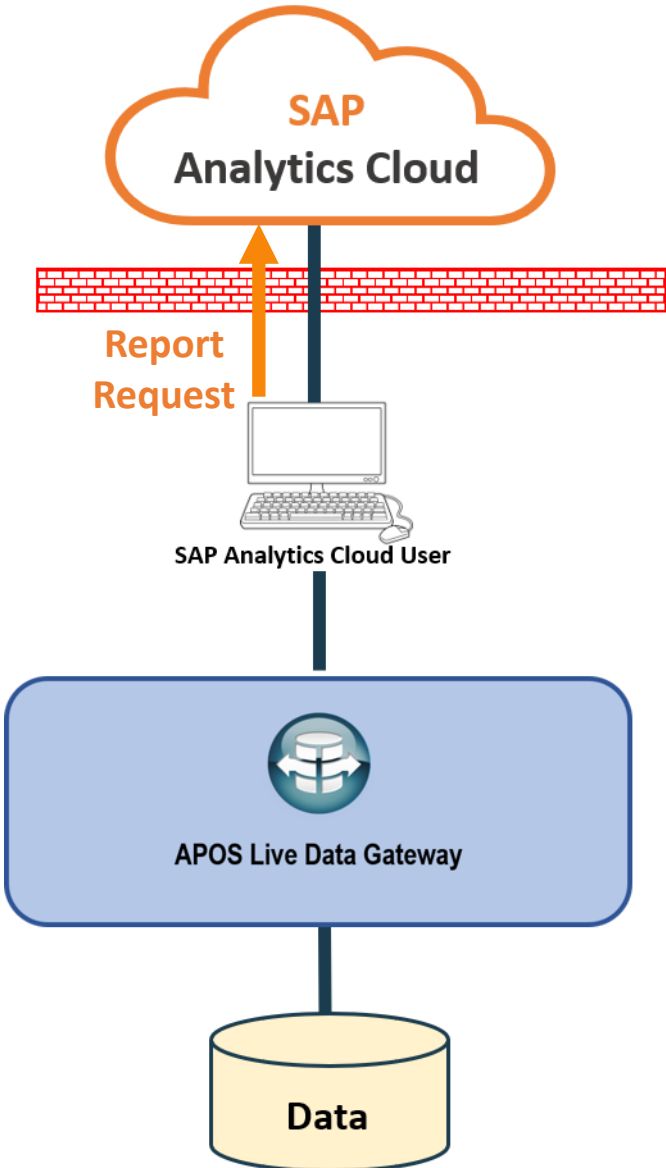
- Business layer to simplify and control data access
- Define Measures and Dimensions
- Define what data fields are exposed
- Manage table links and joins
- Set meaningful field names



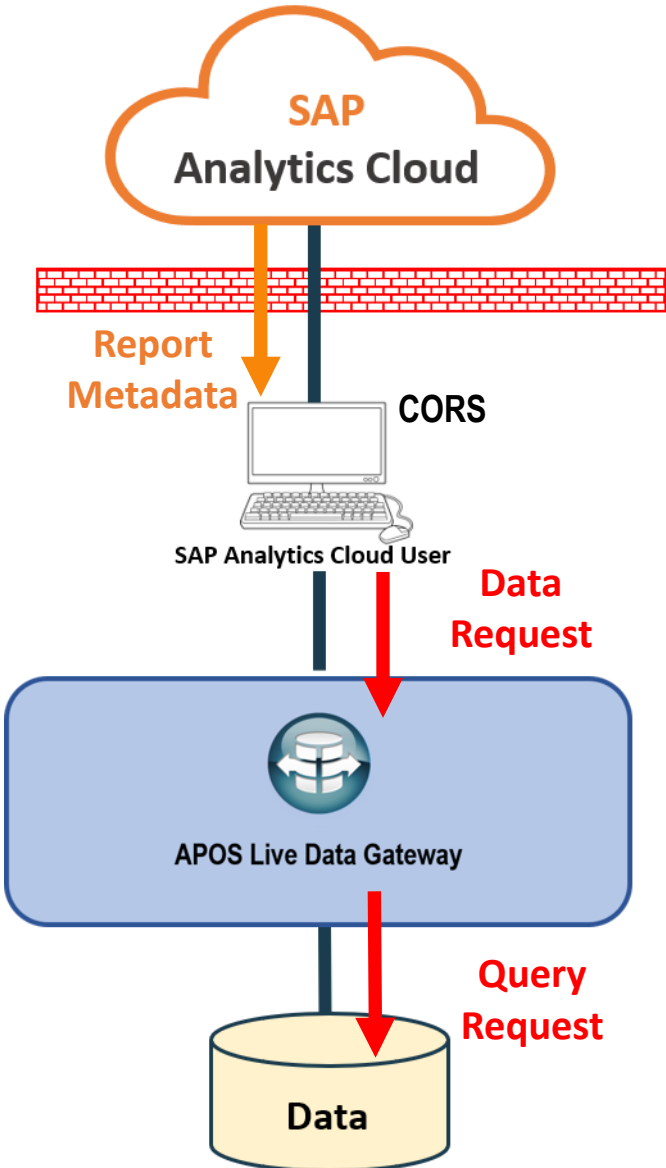
Data Virtualization Layer



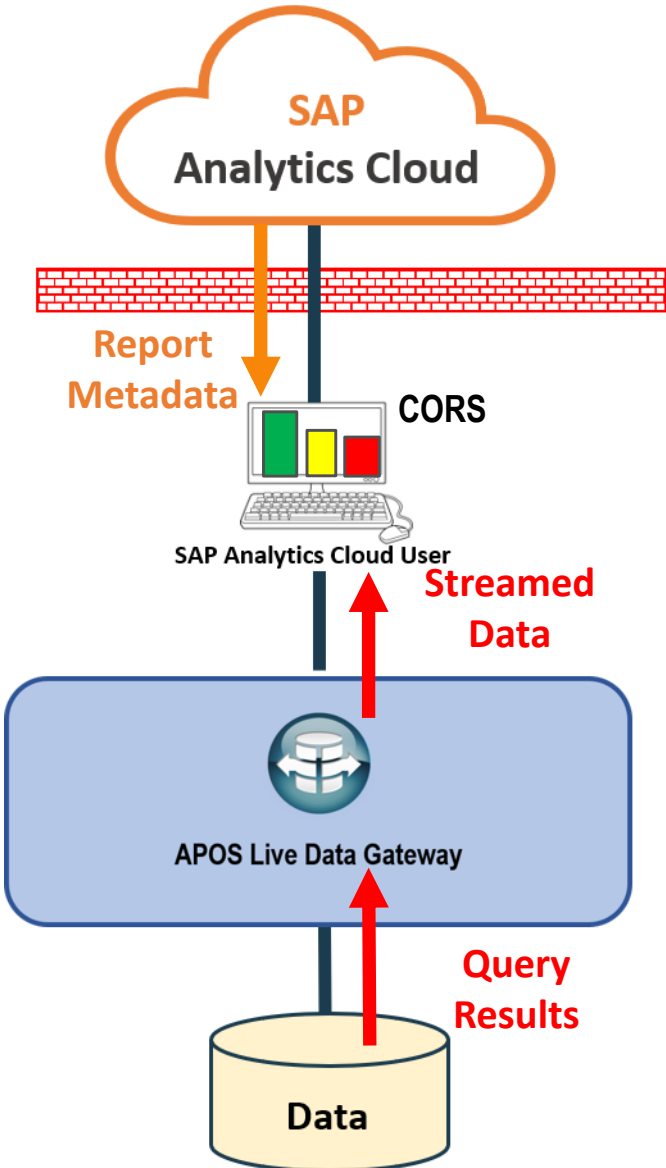
Data Consumption Flow



Data Consumption Flow



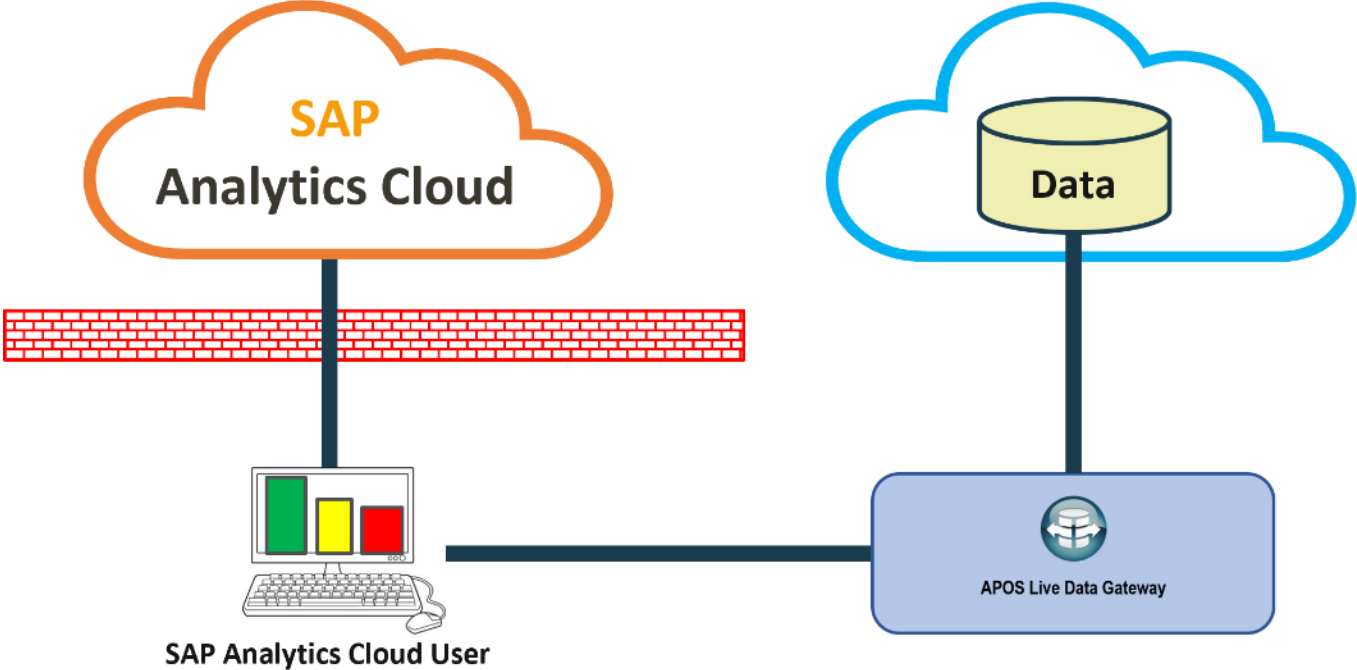
Data Consumption Flow



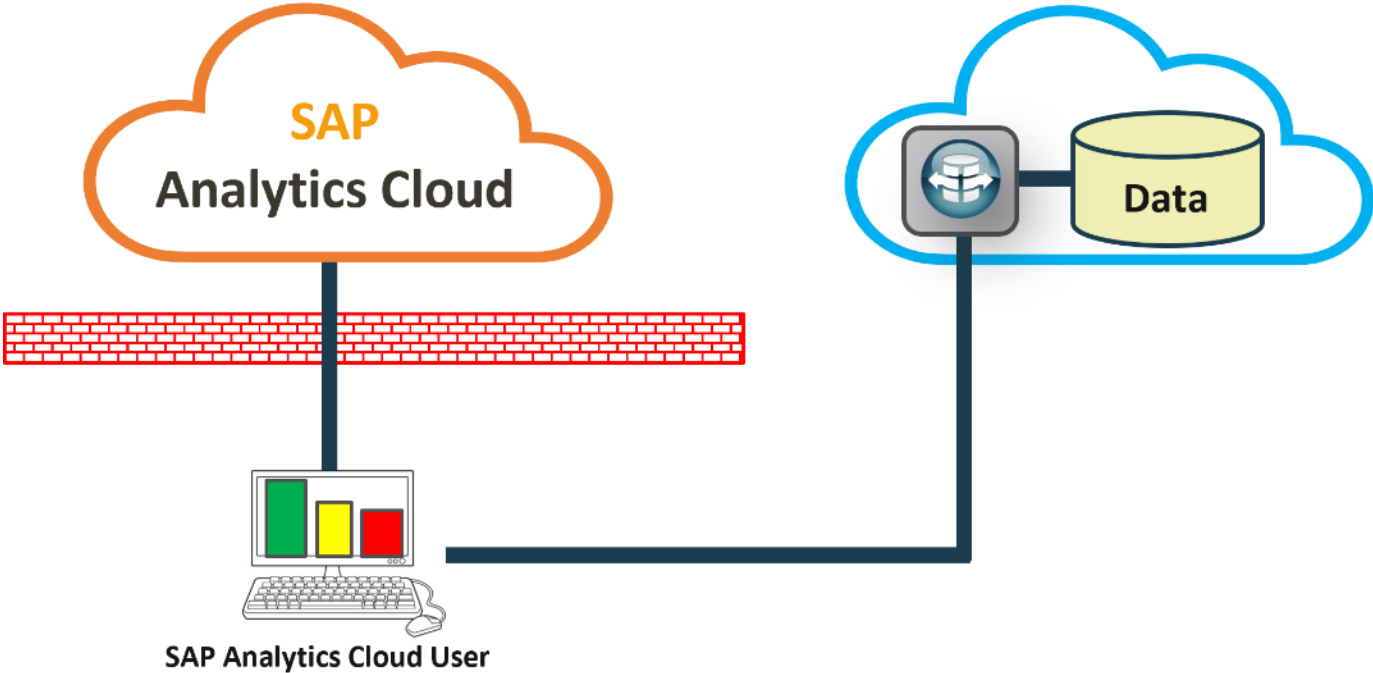
Extend SAP Analytics – Cloud Data Sources



On-Premise Deployment



Cloud Deployment



High Performance Connectivity to Cloud Sources



Relational Data Connectivity & Modelling

Expanded Modelling Capabilities

OLAP Data Connectivity

SAP Sources Connectivity



High Performance Connectivity to Cloud Sources



Relational Data Connectivity

Leveraging Cloud based data assets:

- Live connectivity
- Self-service data modelling
- Strong performance for analytics



Customer Success

Customer in the chemical and manufacturing materials industry.

- Multiple non-SAP data platforms to be utilized in SAC along with their SAP data
- Live Data Gateway enabled Live Connectivity to Google Big Query, Oracle and SQL Server
- Streamlined important monthly financial close process



APOS
CUSTOMER SUCCESS STORY

GRACE

Talent | Technology | Trust™

**FOCUS CUSTOMER -
W.R. GRACE**

W.R. Grace and Company (Grace) is a global leader in providing catalysts and related technologies used in refining, petrochemical and other chemical manufacturing process, and in manufacturing materials used in coatings, consumer, industrial and pharmaceutical applications.

CHALLENGE

Grace needed fast, live data connectivity from SAP Analytics Cloud to important data within Oracle, Microsoft SQL Server, and Google BigQuery for quick and complete month-end financial analyses. With their existing capabilities, some data preparation processes took days of effort and delay to complete each month.

W.R. Grace Achieves Expanded & Unified Data Connectivity with the APOS Live Data Gateway

EXTENDED LIVE CONNECTIVITY	EASE OF DEPLOYMENT	STREAMLINED MONTH-END
Grace established direct data connectivity in live mode to Oracle	Grace quickly and easily gained live access to data, reducing and	Grace streamlined a fiscal-period financial close process by replacing a two-

Customer Success



- Australian-based mining company utilizes Live Data Gateway to enable SAC reporting via live connectivity to their Snowflake deployment
- European-based mining corporation utilizes Live Data Gateway for live connectivity from SAC to AWS Redshift
- International soft drink manufacturer utilizes Live Data Gateway to leverage data from their Snowflake deployment, as well as their SAP BW instance.



Live Connectivity to Relational Sources



Demonstration



High Performance Connectivity to Cloud Sources



Expanded Modelling Capabilities

- Expanded Self-Service Modelling
- Time Dimensions
- Geospatial Data



Customer Success



Leading global corporation in the food production and commodities trading industry

- An objective in their Live Data Gateway deployment was to provide a way for users to handle the creation of semantic layer views, giving them more independence in their analytics
- APOS web-based semantic layer design interface allows them to give a broad set of users the ability to create and maintain business relevant views, enabling self-service modelling and strengthening self-service analytics.



Expanded Modelling Capabilities



Demonstration

High Performance Connectivity to Cloud Sources



OLAP Data Connectivity

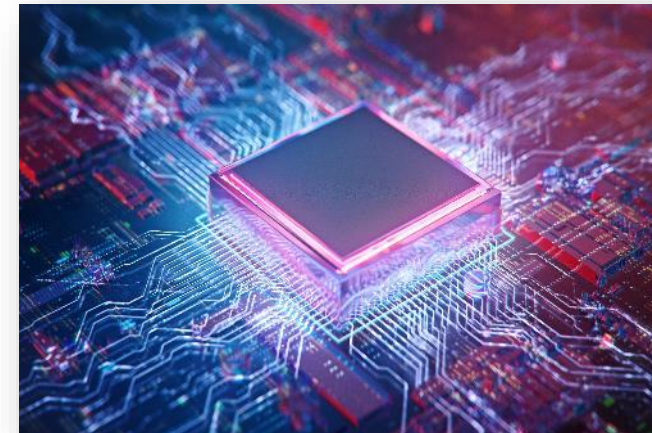
- OLAP sources in cloud
- OLAP specific modelling/view



Customer Success



- Top-ranked global reinsurance organization utilizes Live Data Gateway to access Microsoft Analysis Services data cubes. Deployed as part of a finance transformation initiative, and complementing their S/4HANA system analytics.
- International semi-conductor manufacturer utilizing Live Data Gateway to access Microsoft Analysis Services data cubes, a critical addition to their SAP HANA data analytics



Expanded Modelling Capabilities



Demonstration

High Performance Data Connectivity



SAP Sources Connectivity

- SAP Ariba & Line of Business Applications
- Power BI Connectivity to Data Warehouse Cloud



SAC Data Connectivity for Ariba



- **Import Mode Connection**
- **Live Mode Connection**

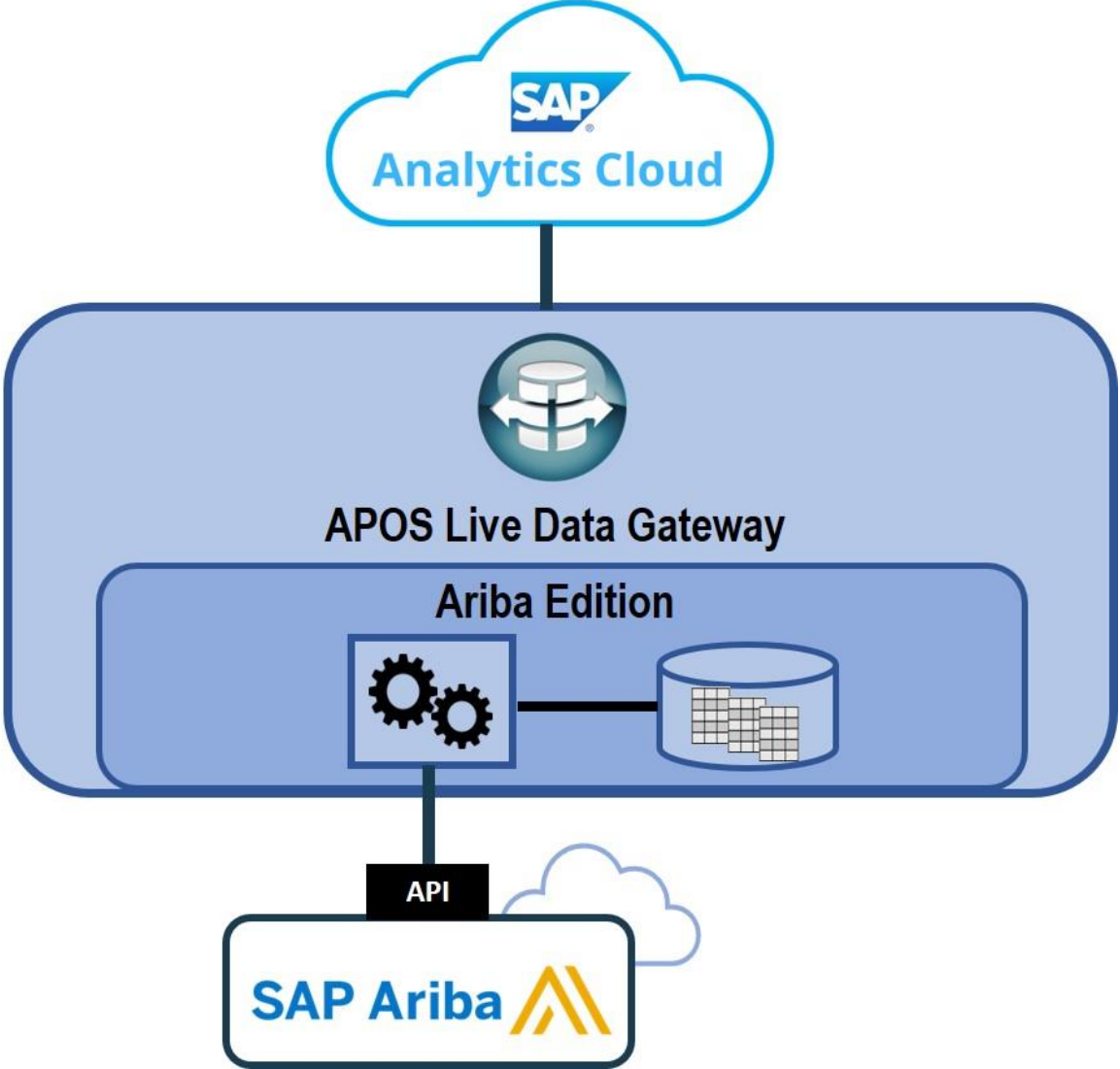


SAC Data Connectivity for Ariba - Challenges

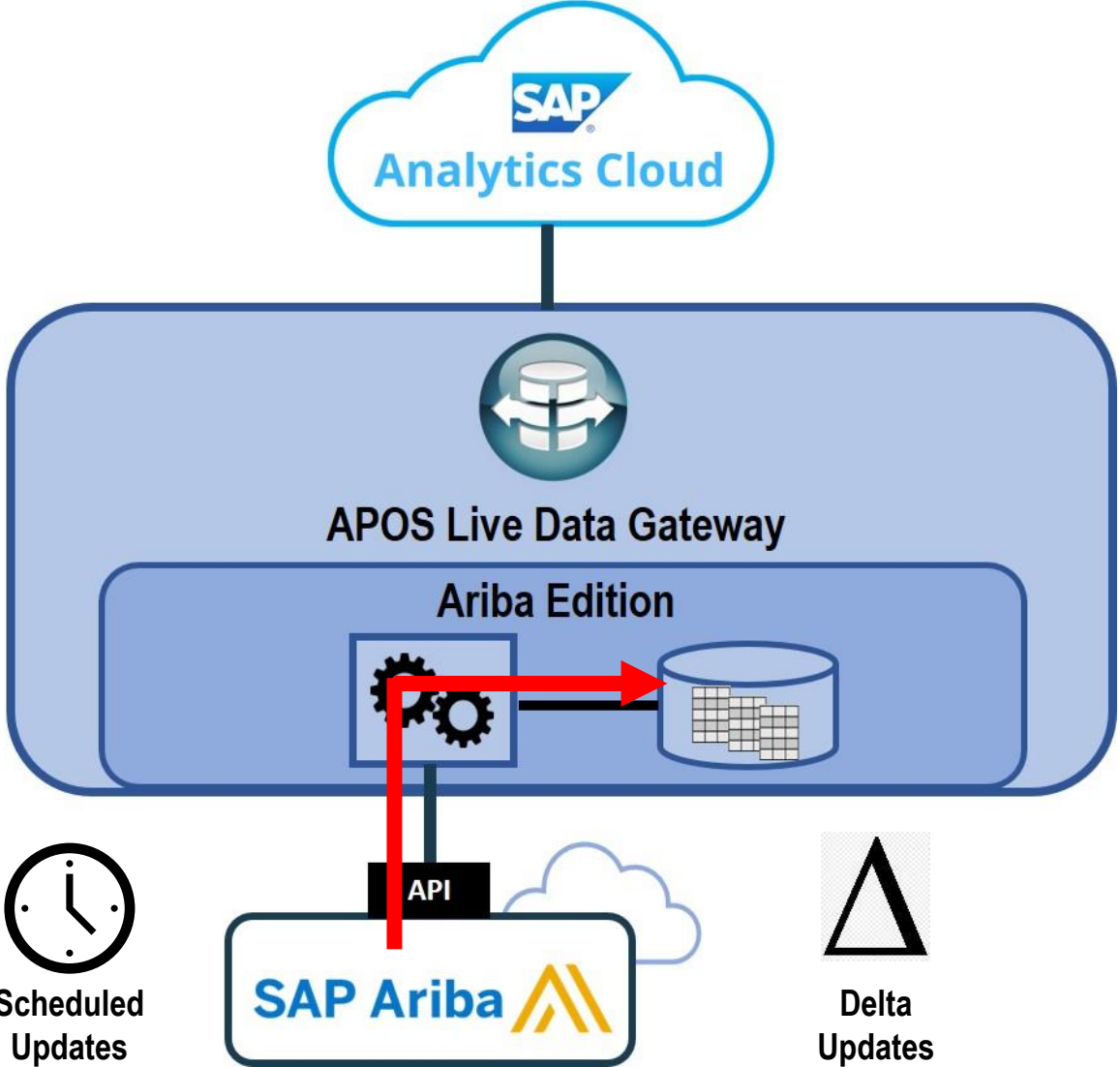


- **Import Mode Connection**
 - Ariba data must be moved into the SAP Analytics Cloud environment
 - Data size limits
 - Data latency – Upload restrictions
 - Data latency – Ariba API restrictions
- **Live Mode Connection**
 - Does not exist natively
 - Connectivity to Ariba is accomplished via API
 - API connectivity not efficient for frequent & rapid live query processes
 - SAC has significant query activity

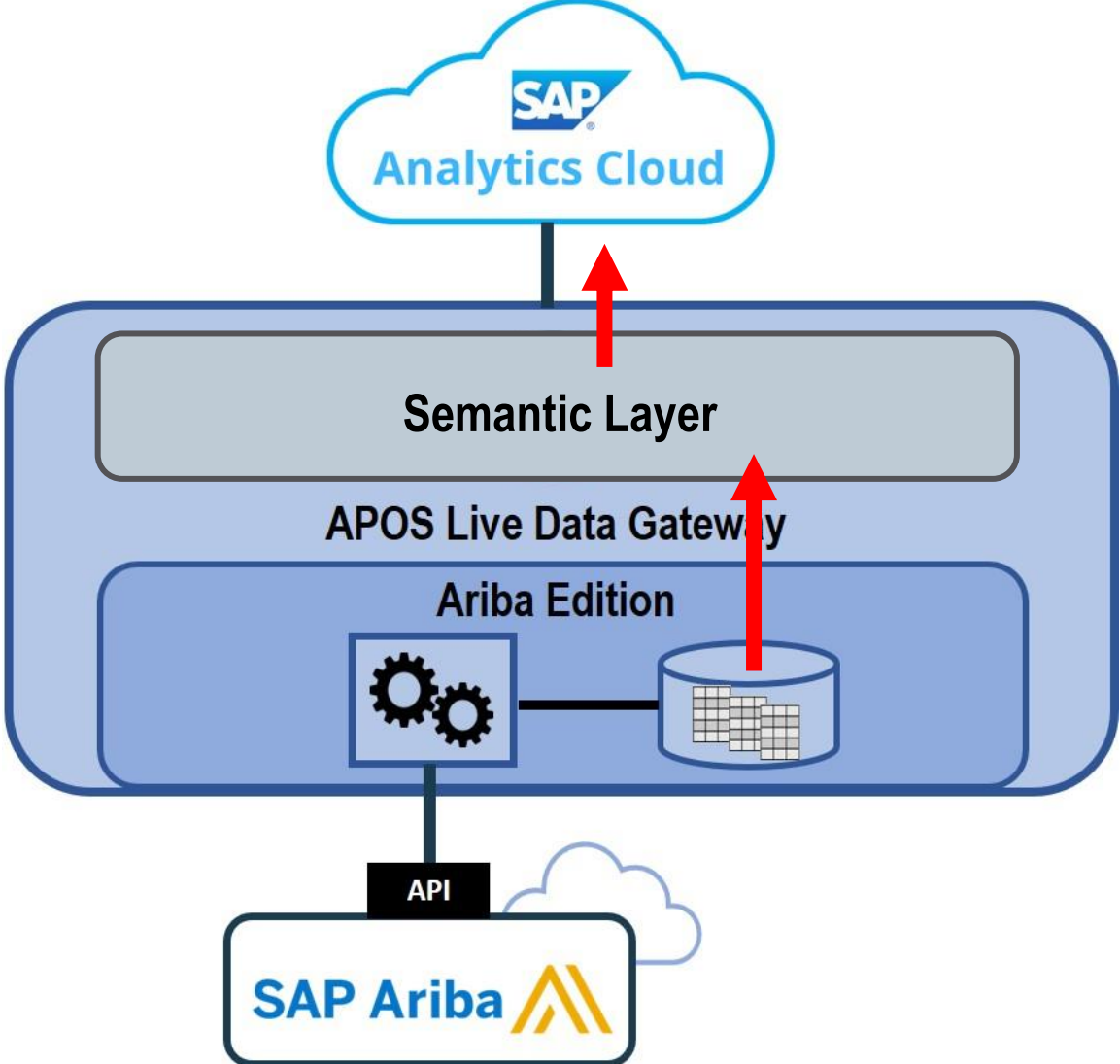
APOS Live Data Gateway – Ariba Edition



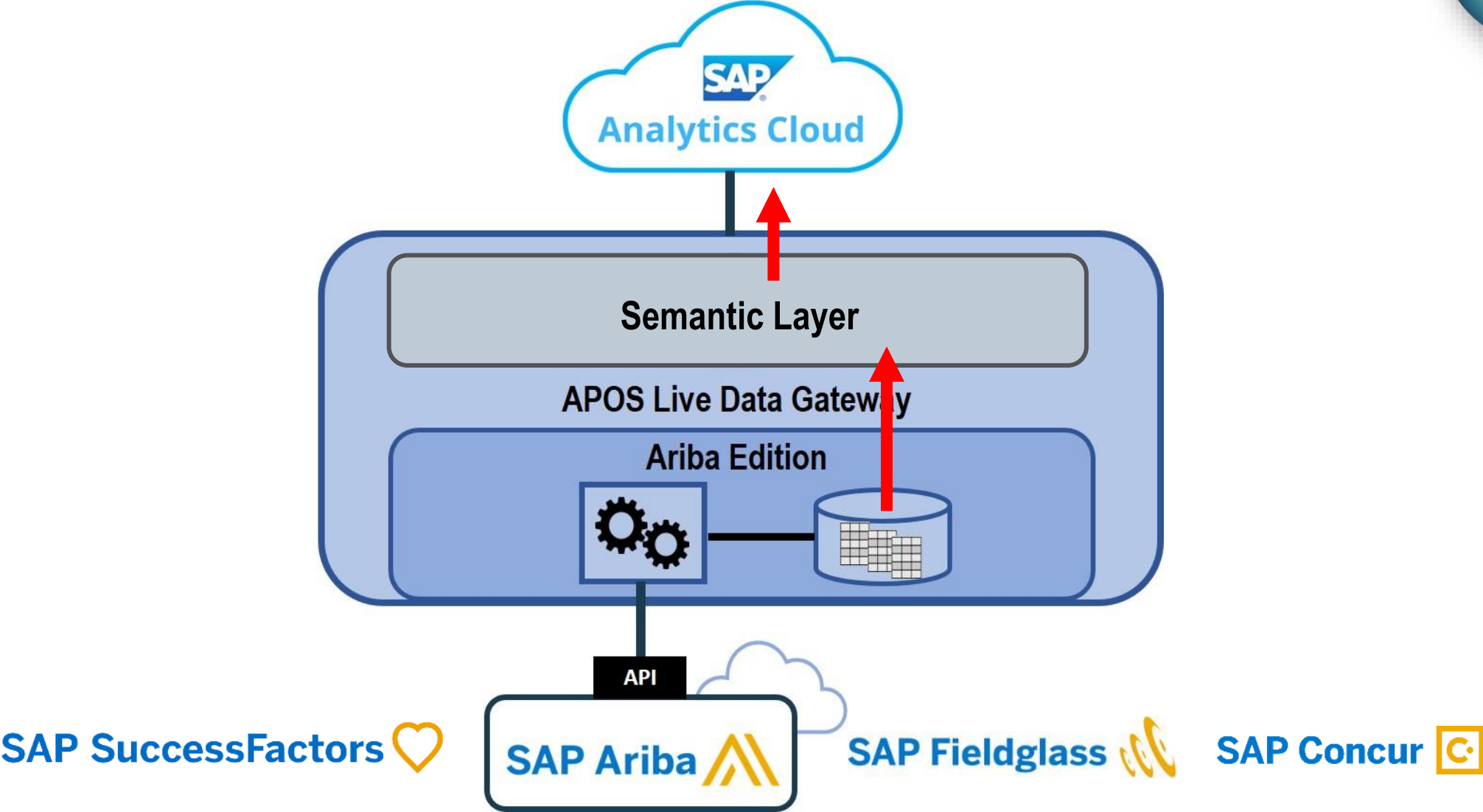
APOS Live Data Gateway – Ariba Edition



APOS Live Data Gateway – Ariba Edition



APOS Live Data Gateway – SAP Applications

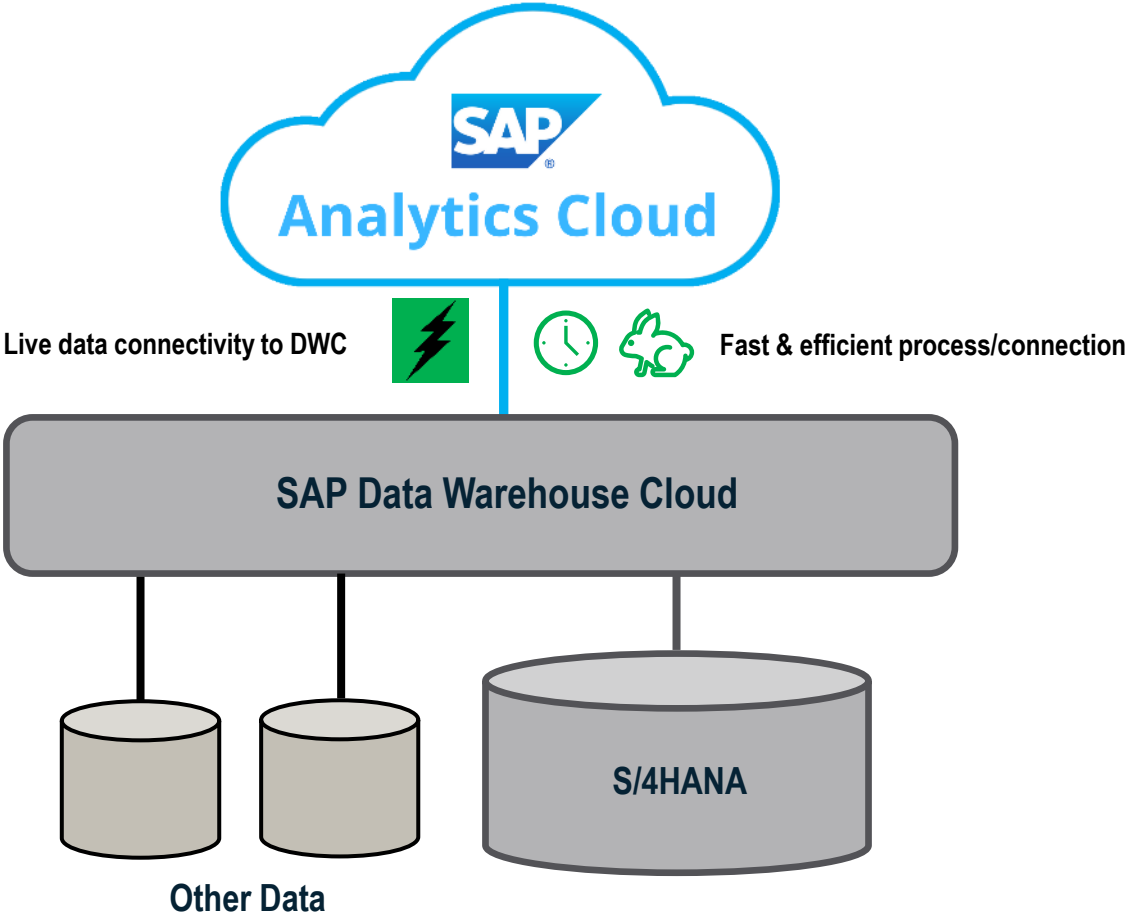


Connectivity to Data Warehouse Cloud

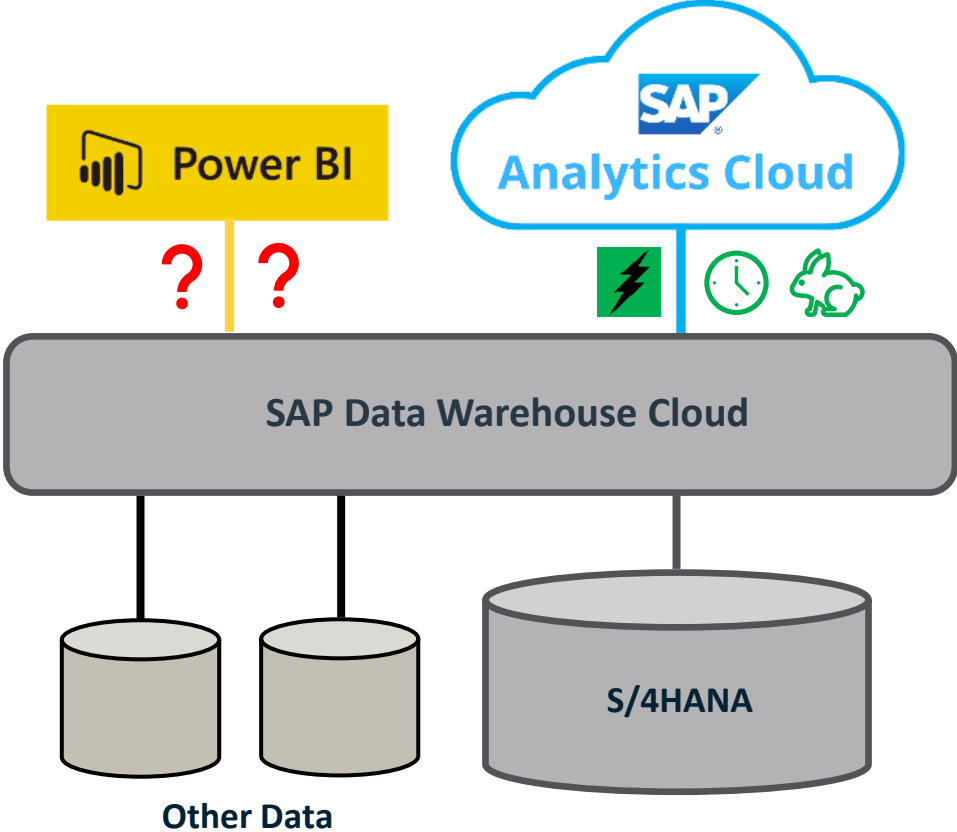


Data
Warehouse
Cloud

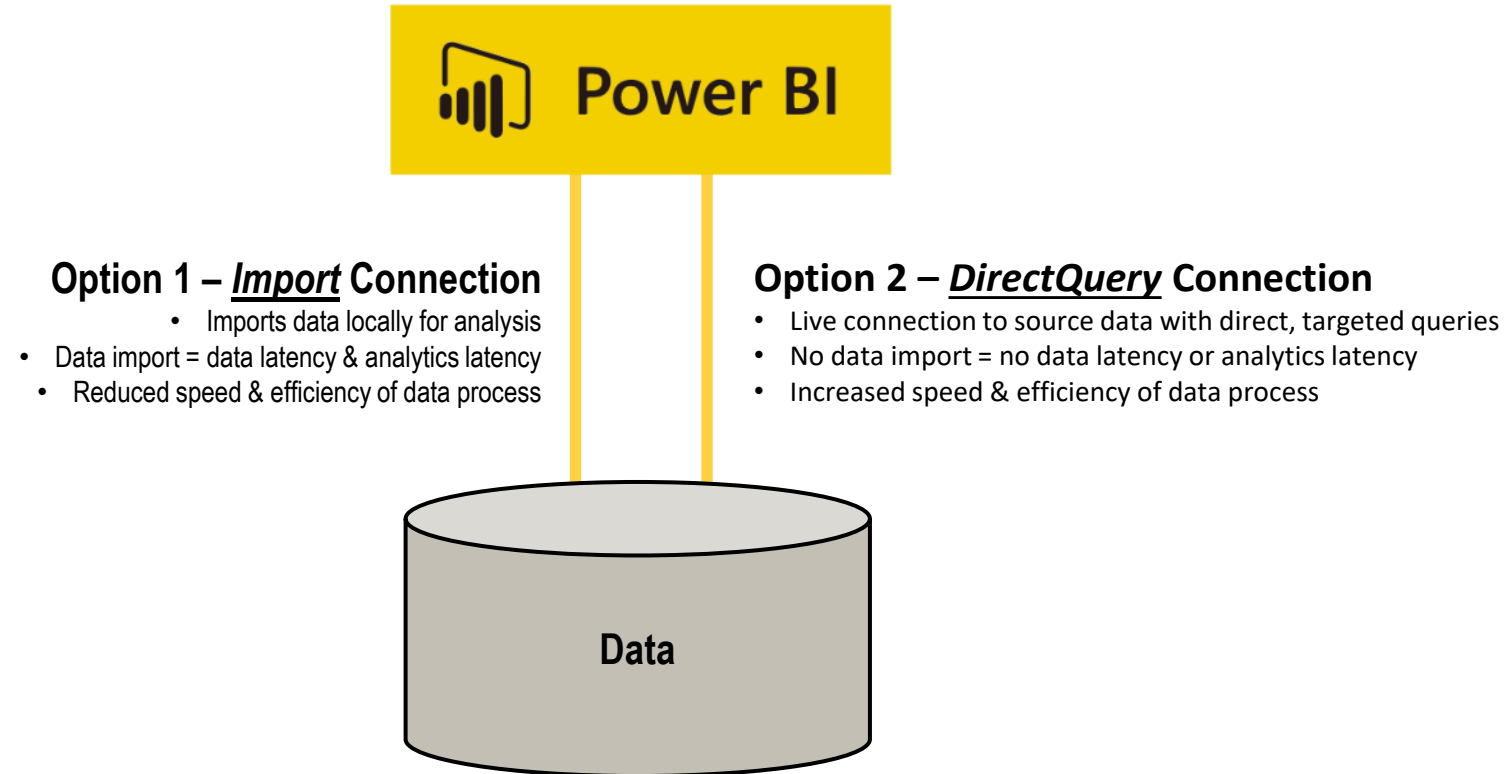
Built-in Live Connectivity from SAC to DWC



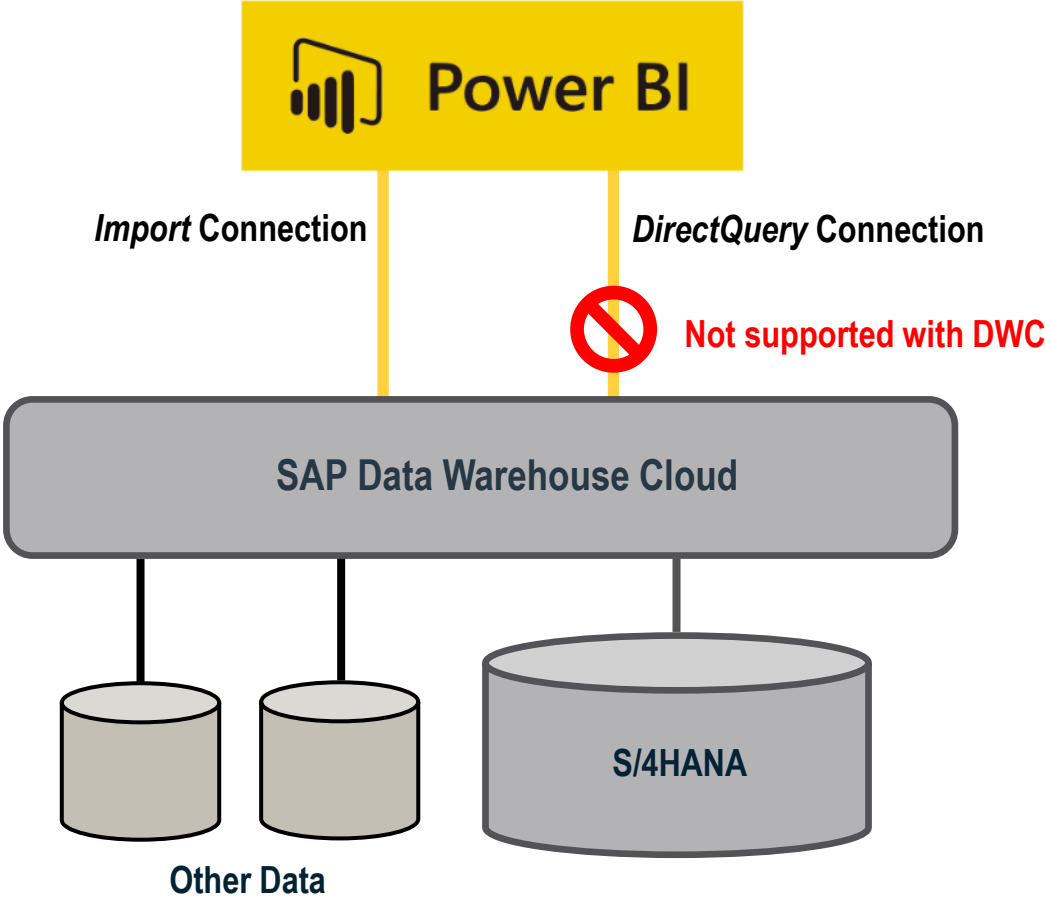
Power BI Connectivity to DWC



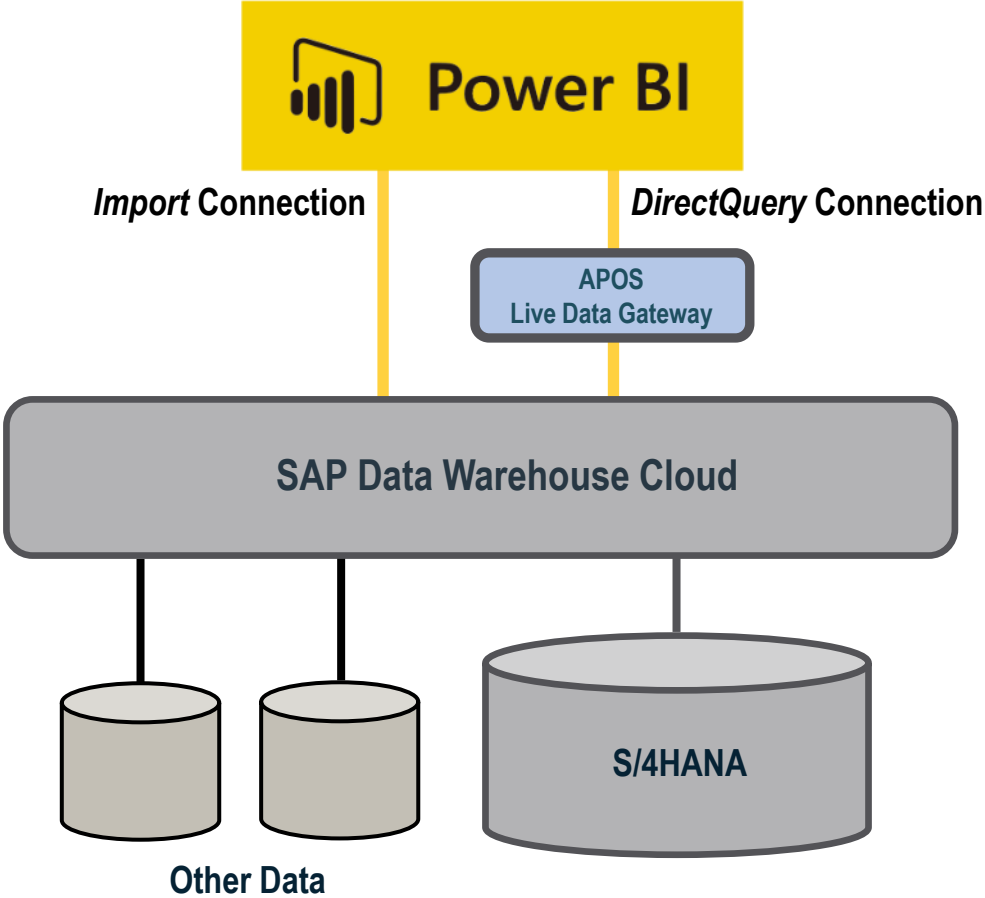
Power BI Data Connectivity Options



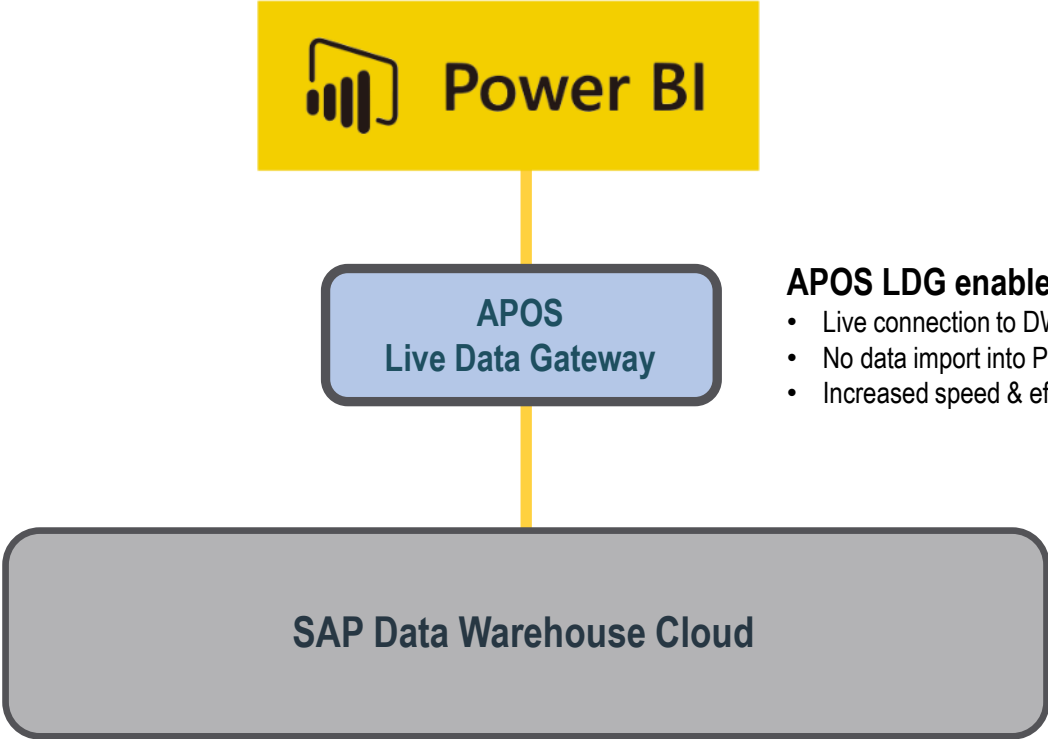
Power BI DirectQuery to DWC



DirectQuery to DWC with Live Data Gateway



DirectQuery to DWC with Live Data Gateway



APOS LDG enables *DirectQuery* Connection

- Live connection to DWC with direct, targeted queries
- No data import into PBI = no data latency or analytics latency
- Increased speed & efficiency of data process


DirectQuery to DWC with Live Data Gateway





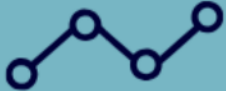



Demonstration

APOS Live Data Gateway



 **APOS LIVE DATA GATEWAY**
Live data connectivity from SAP Analytics Cloud to on-premise & cloud data sources

 Data never leaves the firewall	 Utilize Data from existing location	 Data is always current
 Leverage existing security	 Use existing data modelling	 Unified Semantic Layer

APOS Solutions for SAP Analytics Cloud



APOS Live Data Gateway

- High-performance live data connectivity
- Virtualized, governed, self-service connectivity
- Connect to Relational databases
- Connect to OLAP data sources
- Connect to Cloud data environments
- Connect to SAP Application data

APOS Publisher for Cloud

- Automate secure information delivery
- Deliver timely information
- Create a flexible messaging environment
- Simplify administration
- Use multiple formats & destinations
- Burst stories with multiple filters
- Burst conditionally
- Collate stories
- Personalize PowerPoint bursting



APOS Insight for Cloud

Monitor – tracking & alerting for:

- SAC story performance
- System response measures

Validation automated comparisons across SAC versions of:

- SAC story data
- SAC story performance
- SAC story structure

Impact analysis – granular auditing of SAC story structure metadata

APOS Semantic Layer Migration

- Capture SAP BI Universe data connection and data modelling logic
- Project-based, wizard-driven interface
- Scan your SAP BI content for relevant data connections
- Harmonize SAP BI and HANA data modelling throughout Hybrid BI
- Translate SAP BusinessObjects modelling to SAP HANA Calculation Views
- Translate SAP BusinessObjects modelling to a unified semantic layer



APOS Solutions for SAP BusinessObjects



APOS Insight

BI System Auditing

- System Inventory
- Security Analysis
- System Usage Analysis
- Report Impact Analysis

BI Report Testing

- Automated Report Testing
- Regression Testing
- Validation of Report Data
- Report Performance Testing

BI System Monitoring

- Advanced System Monitoring
- Operating Environment Monitoring
- Database Monitoring
- Process Monitoring

BI Query Surveillance

- Real-time BI Query Monitoring
- Query Performance Alerting & Auditing
- Query Intervention; Remote Cancelling
- Sensitive Data Audit



APOS Administrator

Object Management

- Bulk Security Management
- Bulk Settings Management
- System Objects Promotion
- Connections Maintenance

Schedule Management

- High-volume schedule management
- Multiple schedule properties editing
- Grid scheduling interface
- Repeatable scheduling templates

Instance Management

- Manage entire instance inventory
- Granular instance search
- Stop, pause, release, reschedule
- Rapid recovery to failed schedules

Web Intelligence Migration

- Bulk conversion of Universes from UNV to UNX
- High-Volume Repoint Web Intelligence reports
- Success validation
- Controlled, project-based workflow

APOS Storage Center



- System Backup
- Content Archiving
- Content Versioning
- Selective Restoration
- Automated System Clean Up

APOS Publisher

- Systematic Content Delivery
- Advanced Document Bursting
- Enhanced Content Distribution
- Security and Encryption
- Statement Generation



Upcoming Events



Flexible SAP Analytics Cloud Broadcasting & Publishing for Countless Business Use Cases *Webinar*

October 14, 2021 – 11 am EDT

Digital analytics transformation requires an analytics platform such as SAP Analytics Cloud, but it also requires content and the ability to publish and broadcast that content as needed to fulfill your existing and new business processes and workflows.

APOS Publisher for Cloud provides the capabilities you need to publish and broadcast the right information to the right people at the right time and in the right format.

In this webinar, we will discuss:

- BEx Broadcast workflow replacement
- Data driven SAC report bursting
- Secure report distribution
- Dynamic Flexibility
- Reduced IT burden



Register at www.apos.com

Upcoming Events



Usage Analysis for SAP BusinessObjects - Flashes of Insight *Webinar*

October 28, 2021 – 11 am EDT

Understanding system usage is key to BI system planning as well as day-to-day operational prioritization. APOS Insight establishes a deep and rich BI system metadata repository that allows you to analyze user activity, information consumption patterns, and license and session activity.

We will discuss:

- Report usage
- User activity/License usage
- Hardware/Server utilization

APOS Insight is a comprehensive solution that gives you the knowledge you need for effective and efficient SAP BI system management, including detailed system metadata for thorough system auditing, system monitoring, query surveillance, and BI report testing. It provides the means to maintain the integrity, efficiency and security of your SAP BusinessObjects environment and infrastructure.

...and much more.



Register at www.apos.com

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APOS Systems Inc.



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@APOS_Systems

Interested in learning more about SAP Analytics Cloud and Sharing your experience?

JOIN THE SAP ANALYTICS CLOUD GROUP TODAY!



Join easily by searching "SAP Analytics Cloud (SAC)" & Request to Join on
LinkedIn!

QUESTIONS?

Please enter your questions in the Q&A panel.



Thank You!

Get in Touch

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High Performance Connectivity to Cloud Sources



Leveraging Cloud Data Assets

- Live data connectivity
- Relational data & OLAP data
- Self-service data modelling
- Strong performance for analytics
- Integrated security, SSO



Customer Success

Customer in the chemical and manufacturing materials industry.

- Multiple non-SAP data platforms to be utilized in SAC along with their SAP data
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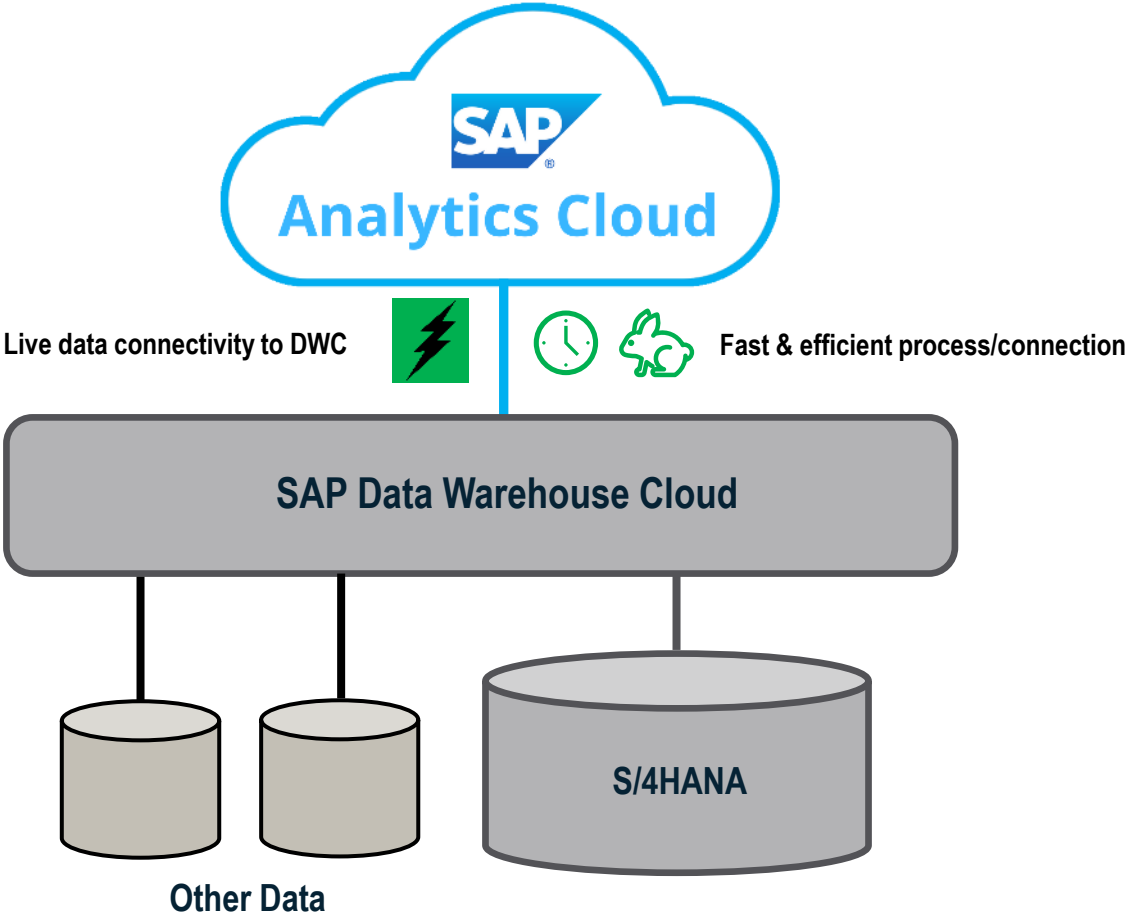


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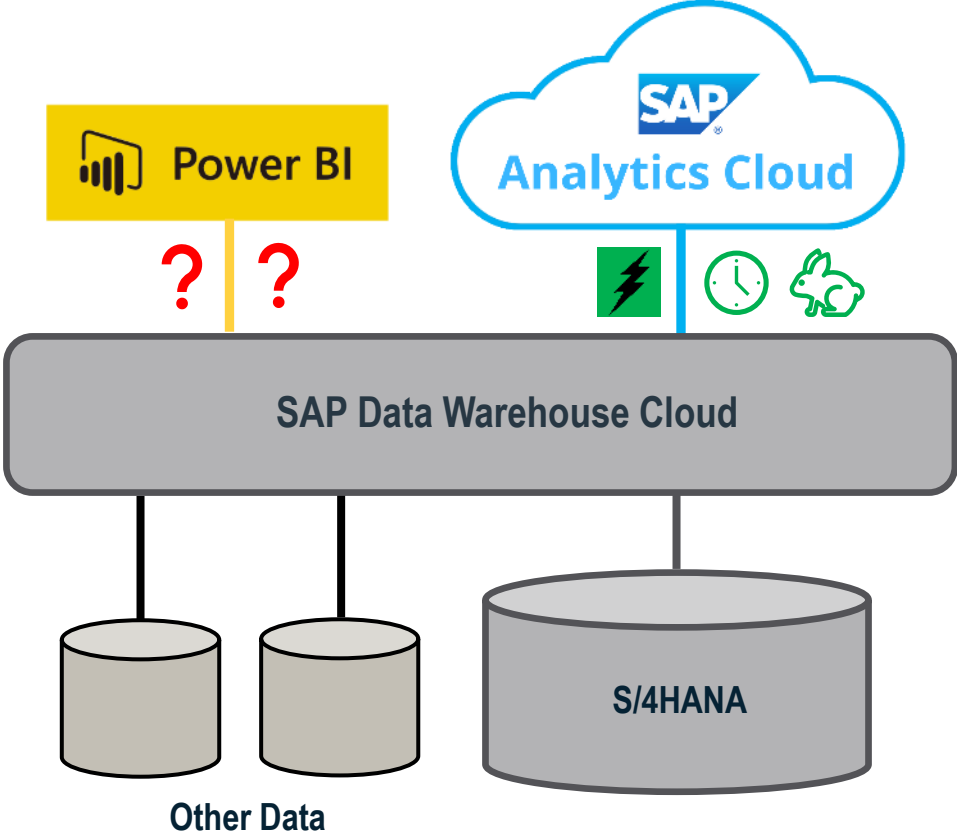


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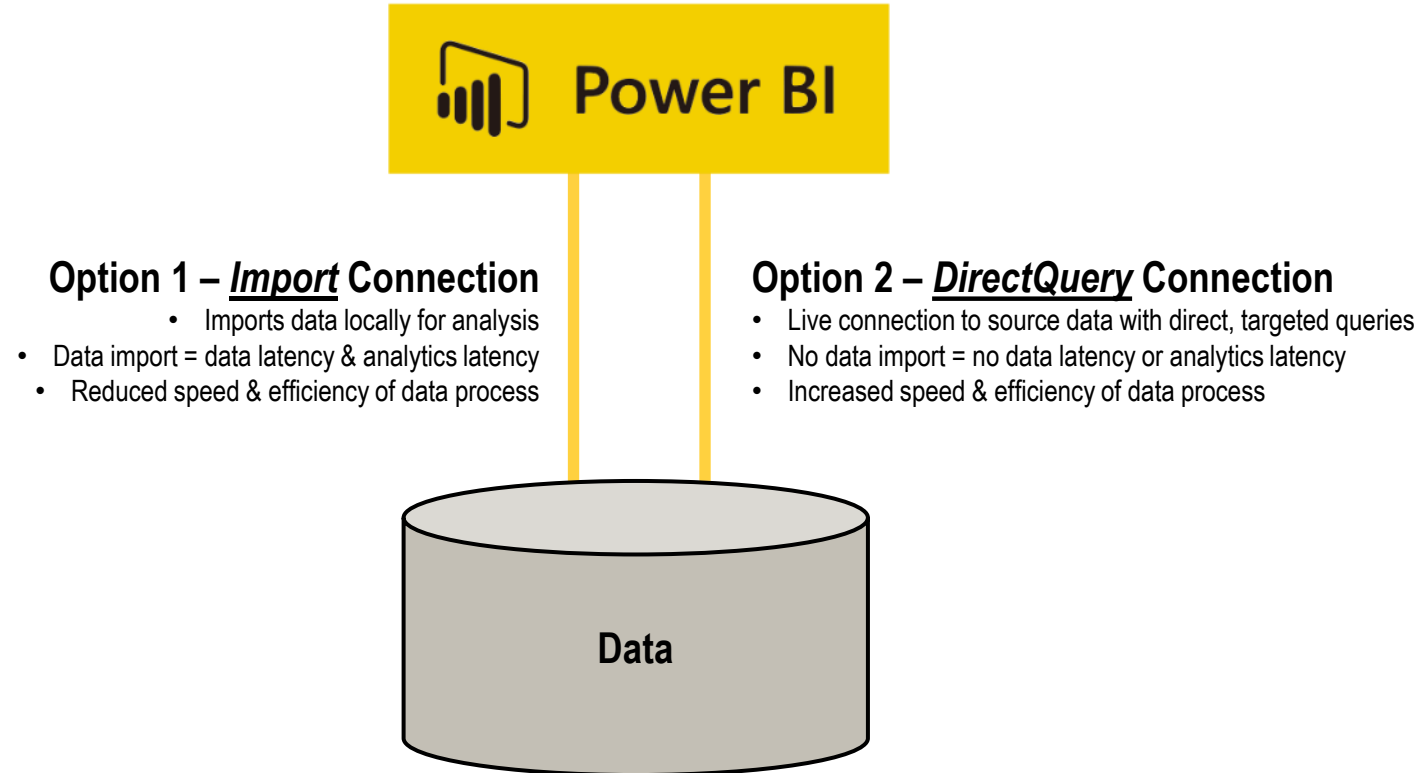
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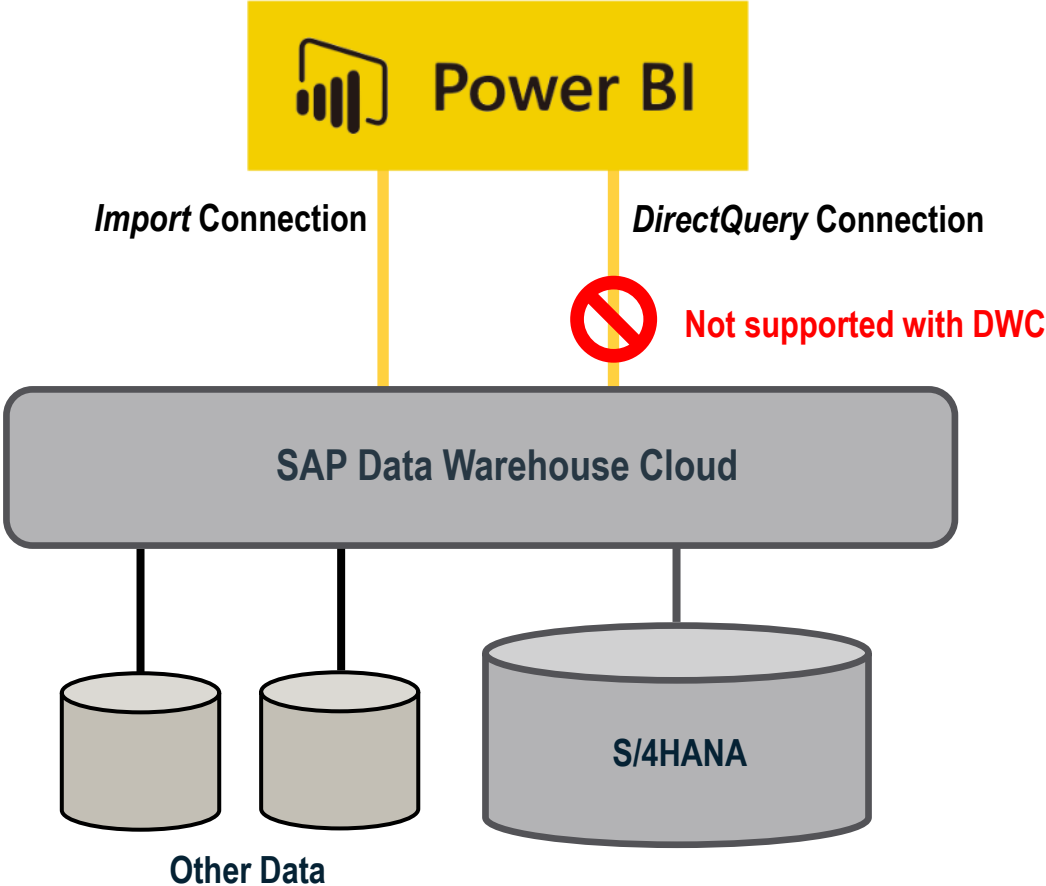
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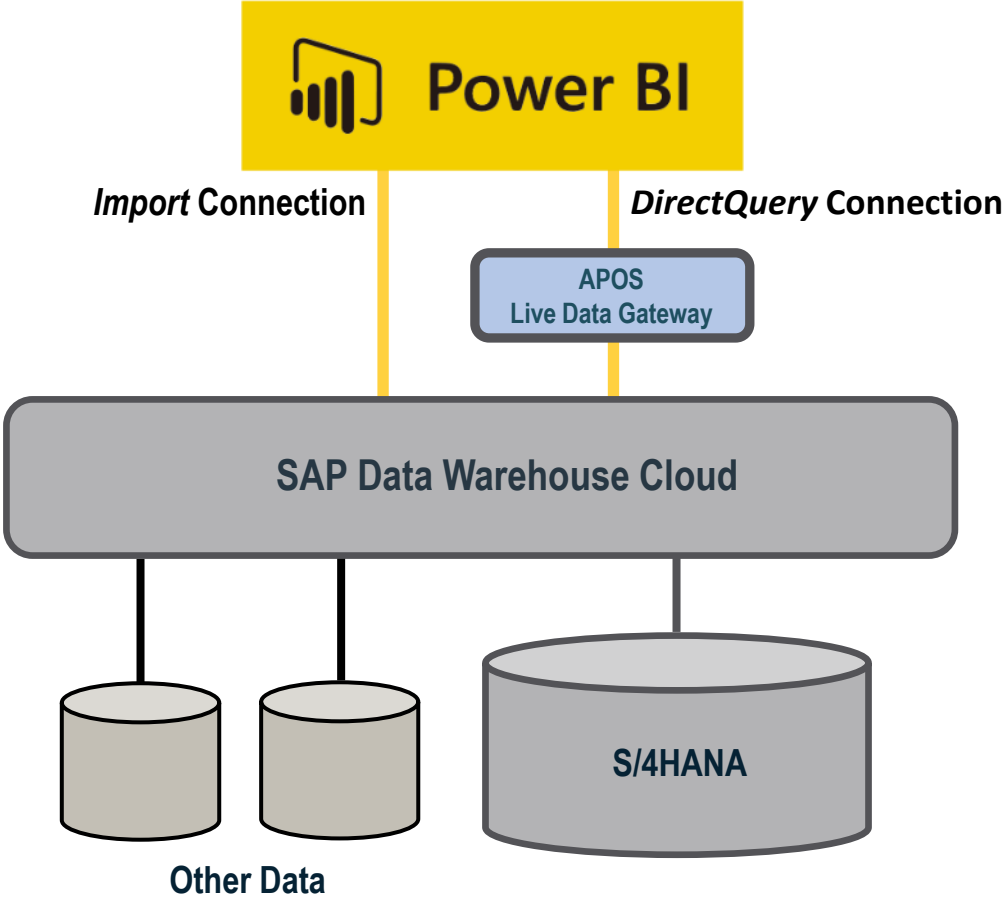
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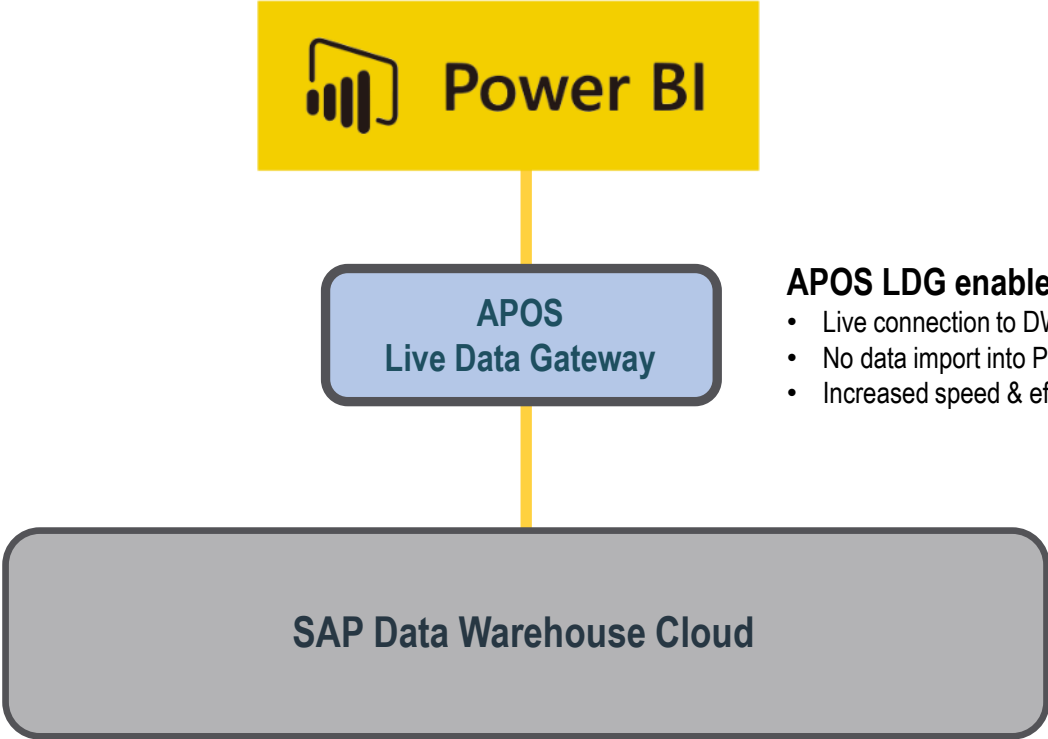
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