



Extend Analytics Data Connectivity -Unified Data Access

Today's Session

Key Topics

- Live vs Import Connectivity
- Unify Data Connectivity
 - SAC Planning
 - SAP Data Platforms
 - Other BI Platforms
 - Semantic Layer Migration
- 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**



HOUSEKEEPING



**You will have
access to the
slides via
email**



**You will get
the recording
within 24
hours**

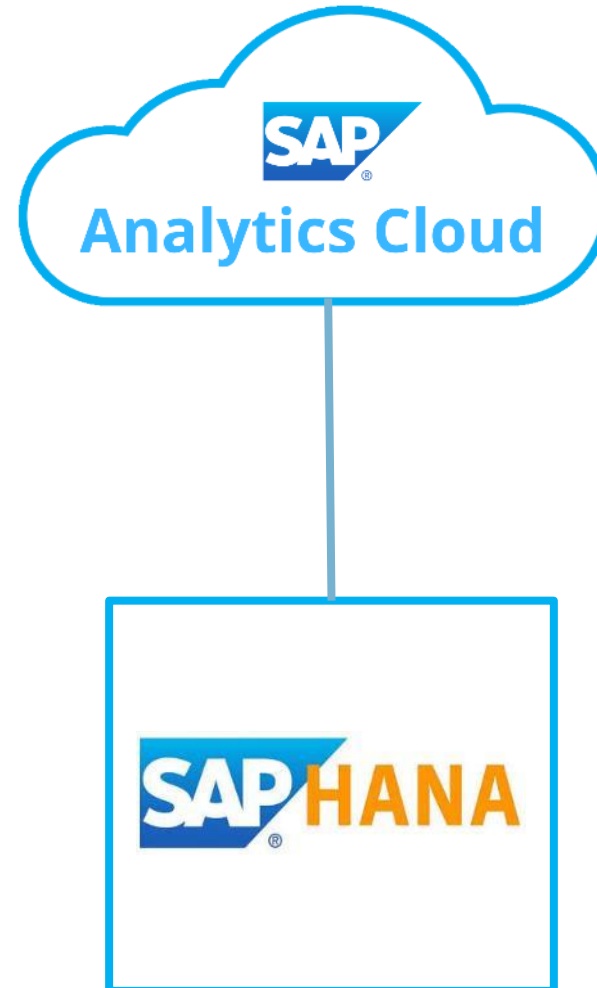


**Tell us how
we did in the
survey**

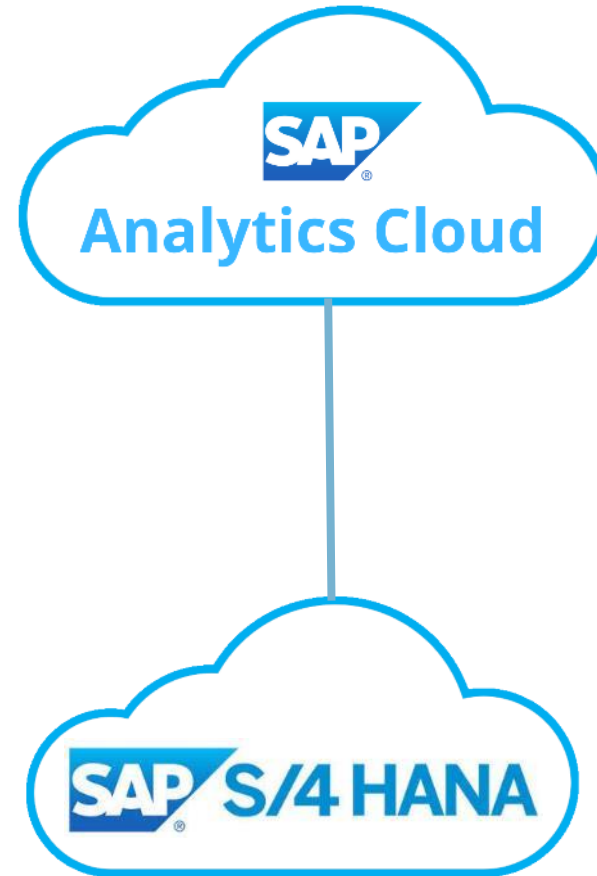
SAP Analytics Cloud - SAC



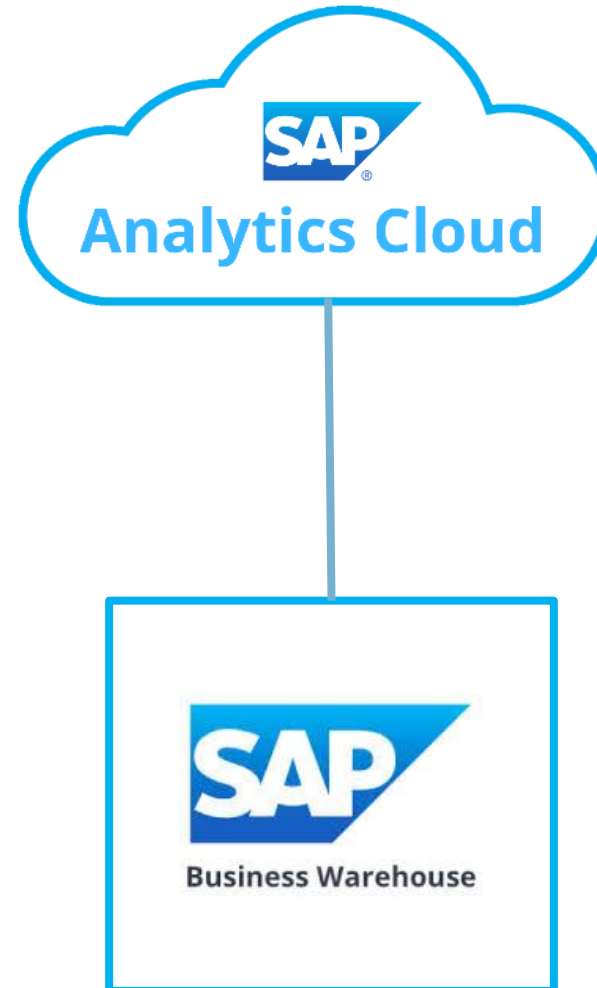
SAC Connectivity



SAC Connectivity



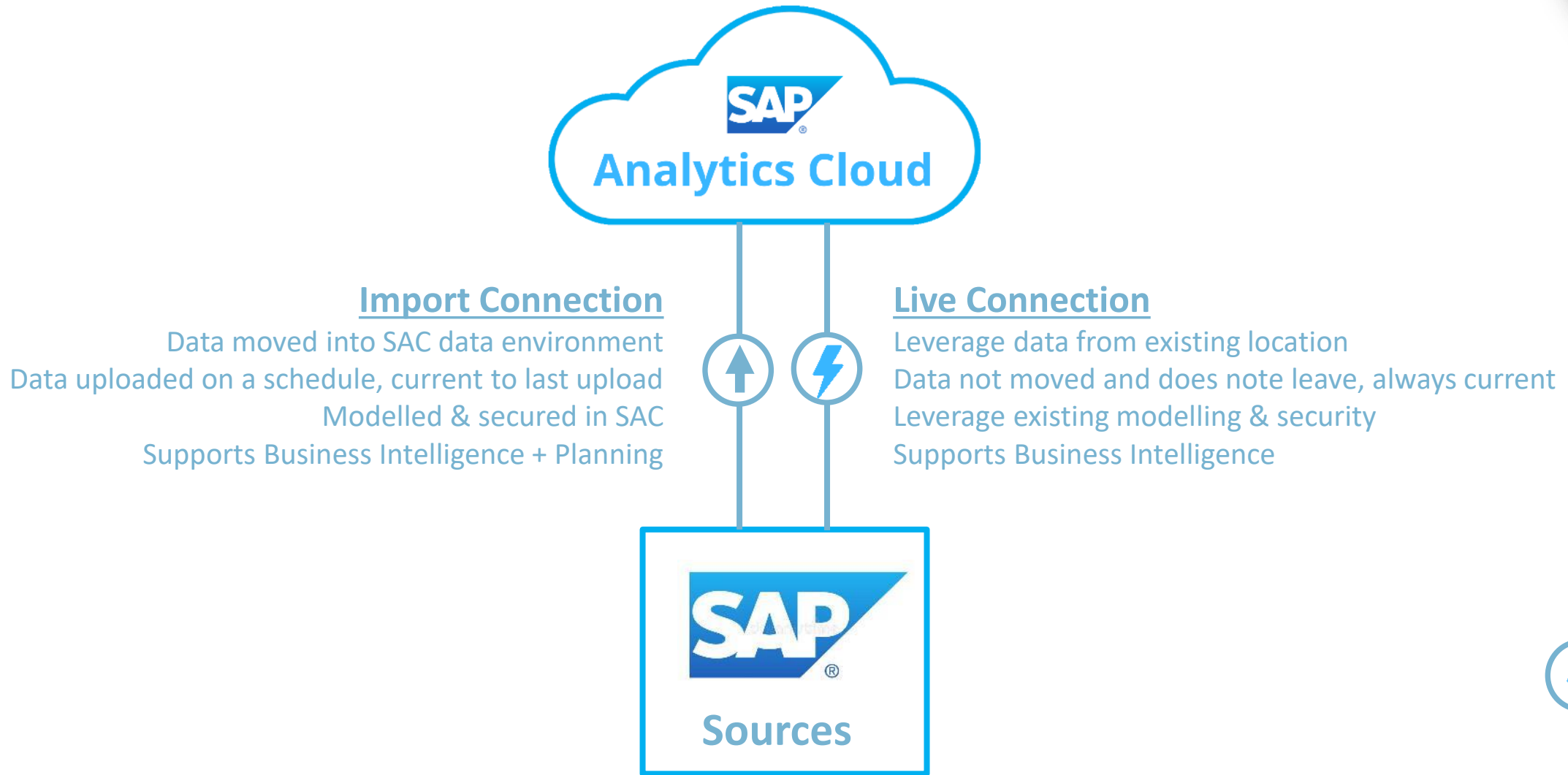
SAC Connectivity



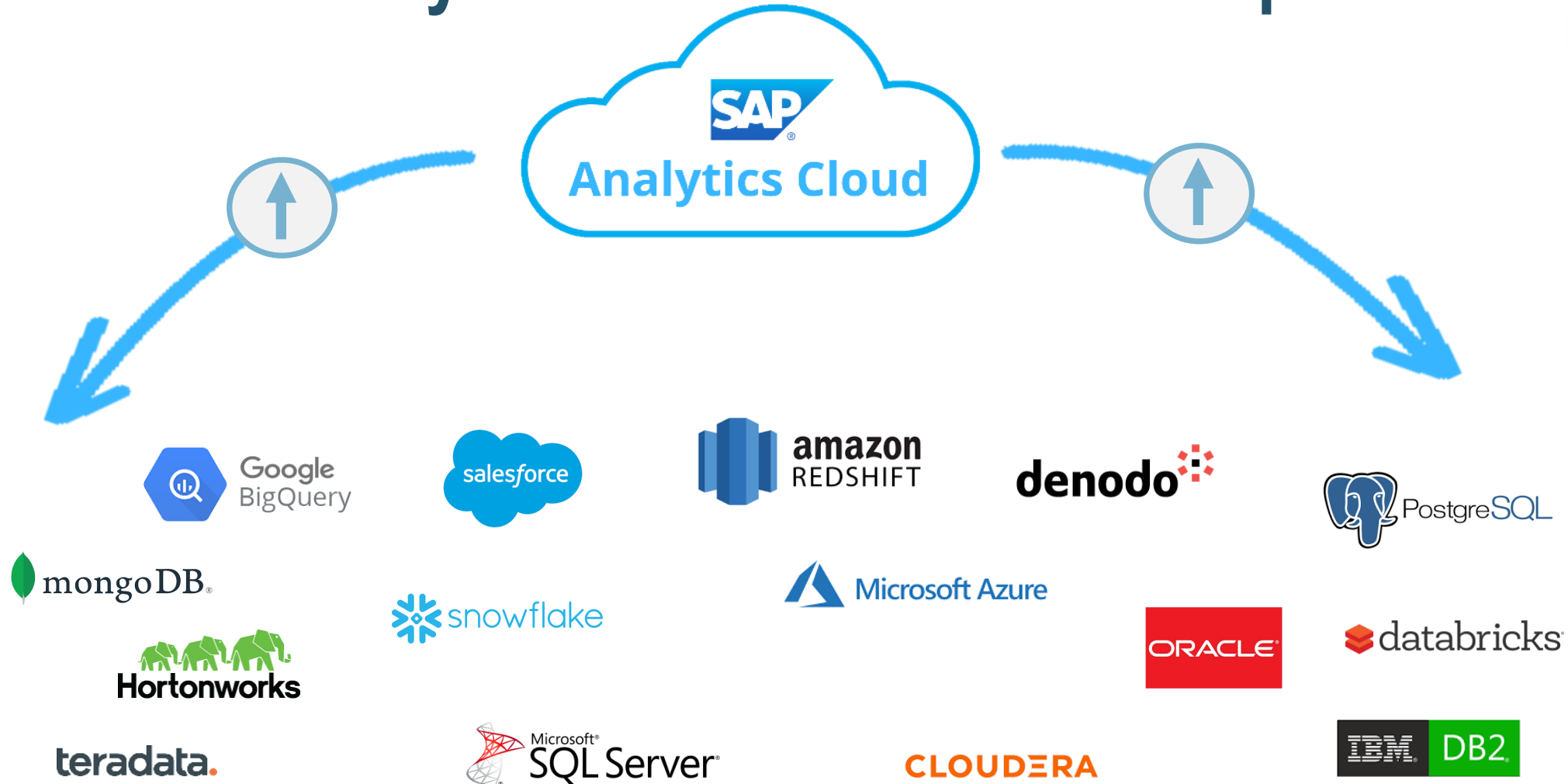
SAC Connectivity



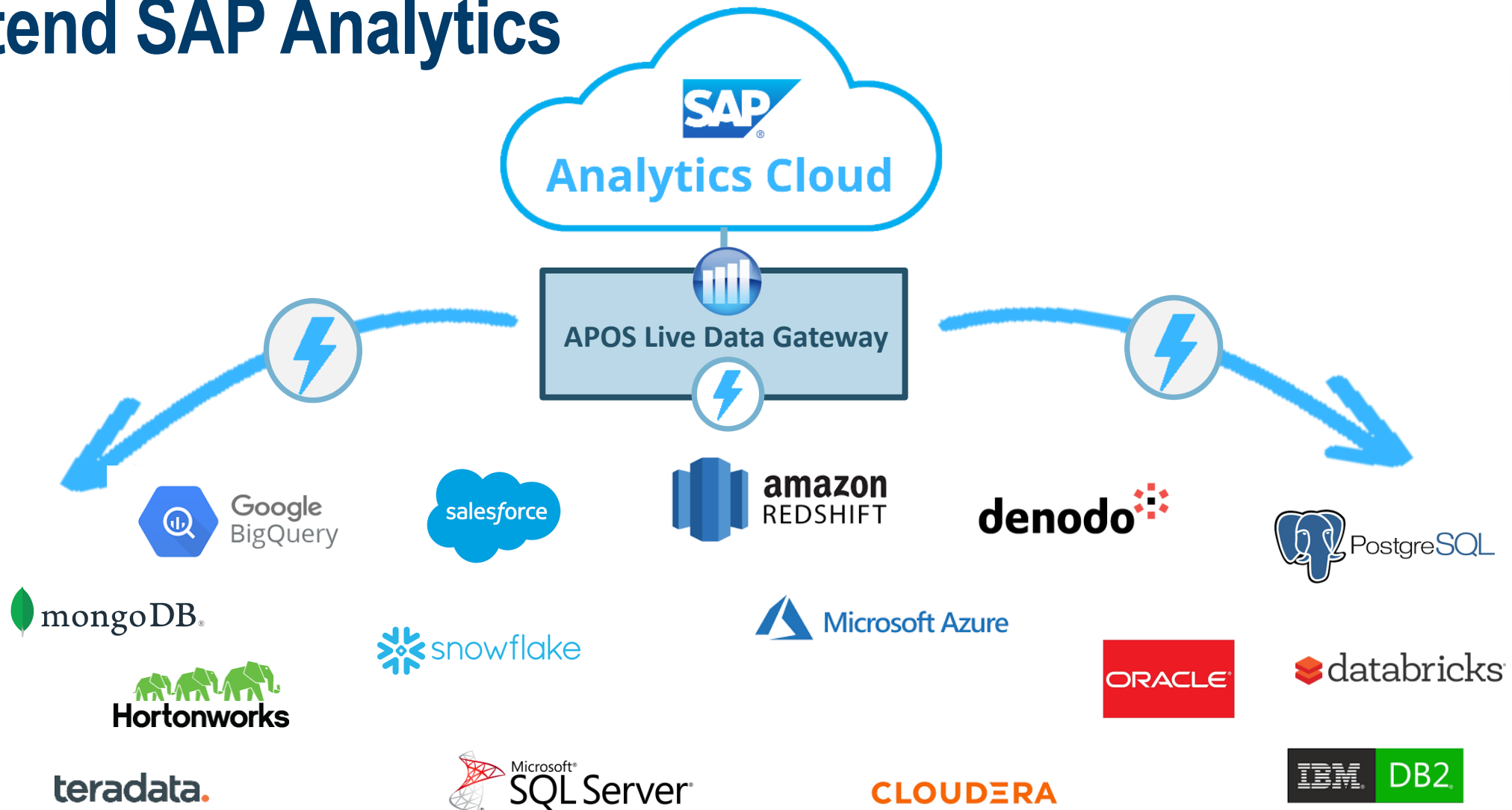
Live & Import Connectivity



SAC Connectivity to Non-SAP Sources - Import



Extend SAP Analytics





Alan Golding
Solution Consulting Manager
APOS



APOS Live Data Gateway – Unlock Live Data



APOS Live Data Gateway enables 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

APOS Live Data Gateway – Unlock Live Data



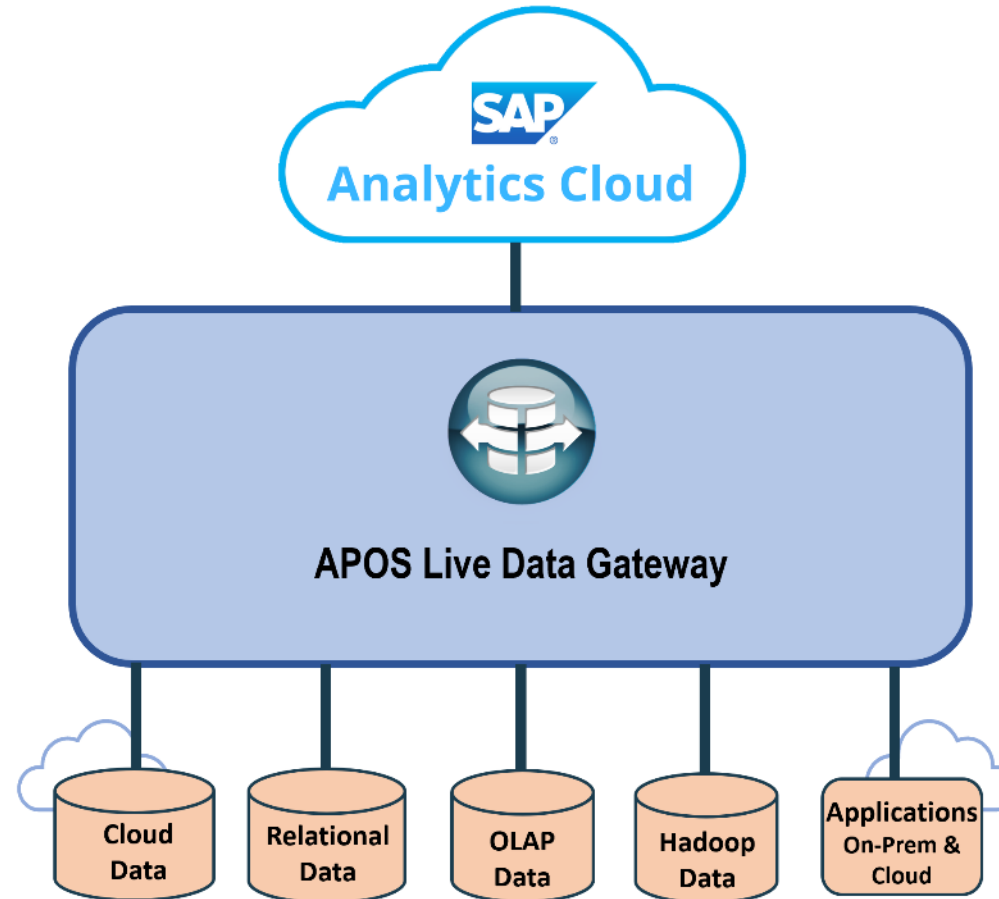
Supported Data Sources

- Amazon Athena
- Amazon EMR
- Amazon Redshift / Redshift Spectrum
- Amazon S3
- Azure Analysis Services
- Azure Blob
- 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
- Mongo DB, Mongo DB Atlas
- MySQL
- Netezza
- Oracle
- Oracle Essbase
- Oracle Exadata
- Postgres
- Presto
- Salesforce
- Snowflake
- Sybase IQ, Sybase SQL Anywhere
- Teradata
- SAP BW - version 7.3 and higher
- SAP BusinessObjects Universes (UNV, UNX)
- JDBC connectivity

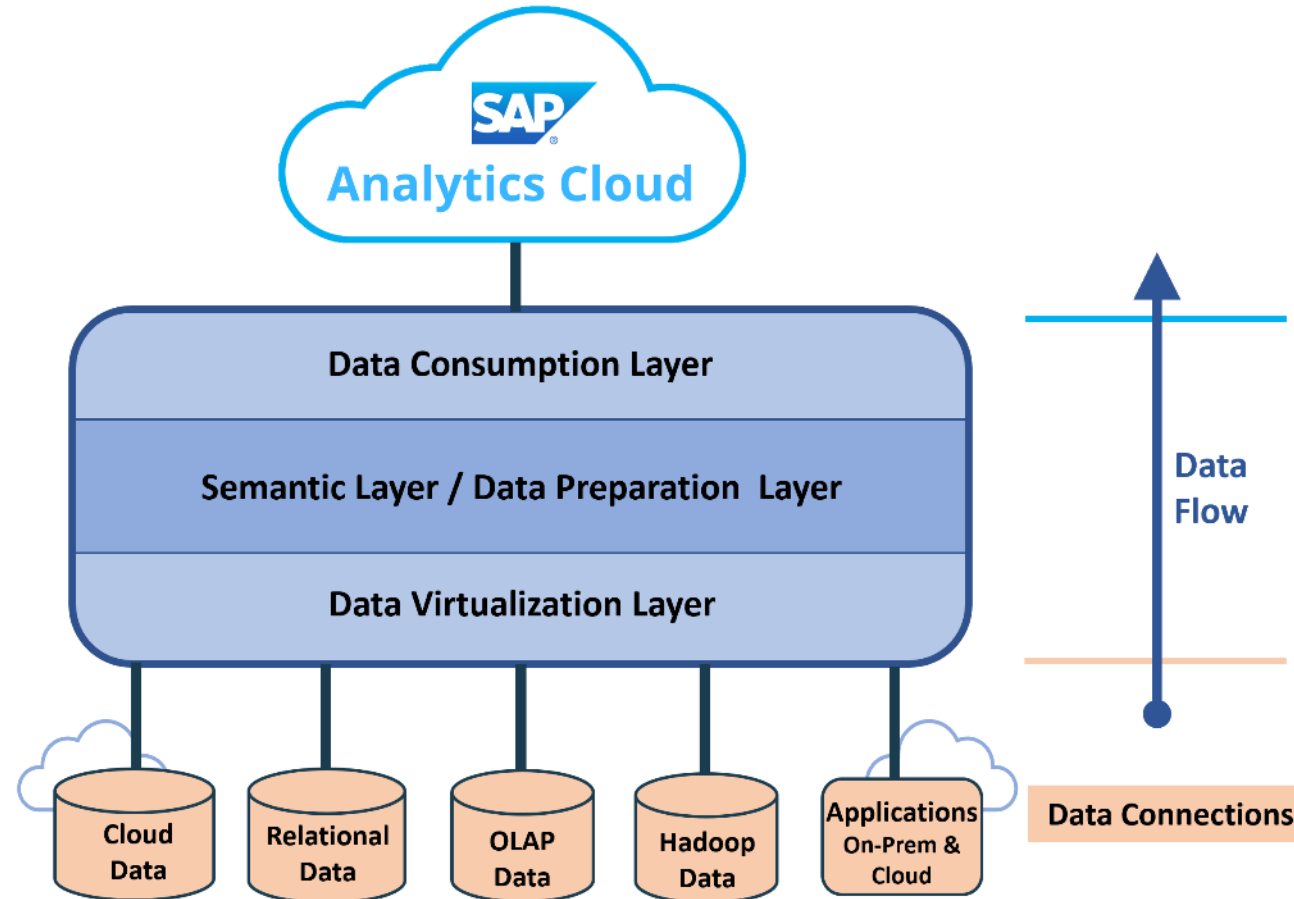
Extended Data Sources: 100+ Additional data source and application connection options

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

APOS Live Data Gateway – Unlock Live Data



APOS Live Data Gateway – Unlock Live Data



APOS Live Data Gateway – Unlock Live Data



Data Virtualization Layer is used to create the connections to the various data sources

APOS Live Data Gateway Admin

APOS Data Gateway for BOC Admin

File

Connection Extra Properties Time Dimension

Data Source: Database

Connection String

Database: JDBC Generic

Host Port: Database Name: SNOWFLAKE_SAMPLE_DATA

Connection String: jdbc:snowflake://nu25243.ca-central-1.aws.snowflakecomputing.com/?warehouse=COMPUTE_

JDBC Driver Configurations

Driver Class: net.snowflake.client.jdbc.SnowflakeDriver

Requires Catalog In Query ☐ Requires the Alias in ORDERBY ☐ Use TOP in Select ☐

Driver Properties

Property Name	Property Value	Is Encrypted
---------------	----------------	--------------

SSO

Use SSO ☐ Authentication Method:

Test Connection Save Cancel

Build Web Config Add Edit Delete Manage Views Close

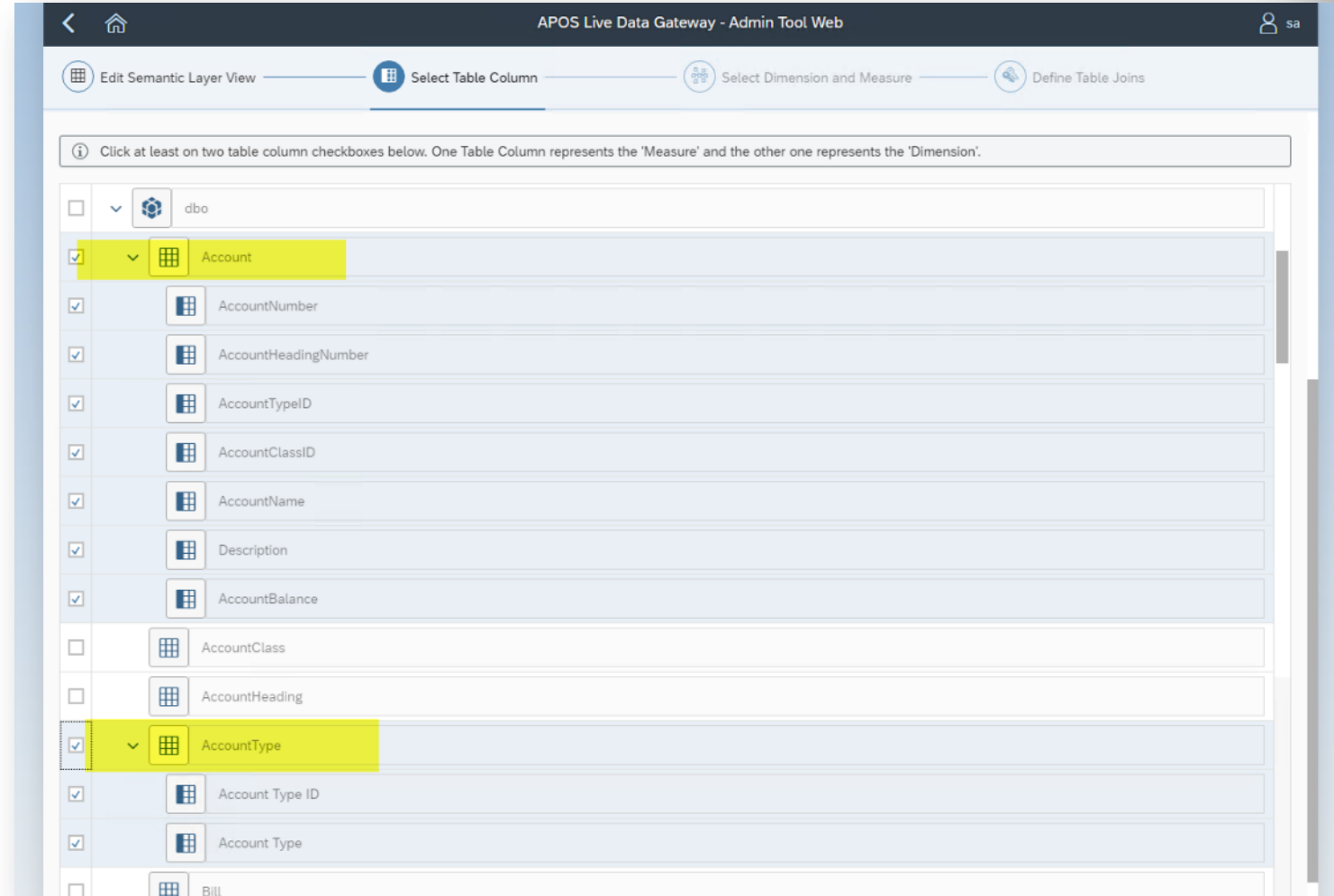
APOS Live Data Gateway – Unlock Live Data



Semantic Layer / Data Preparation Layer is used to create data views.

Data views (APOS Views) enable:

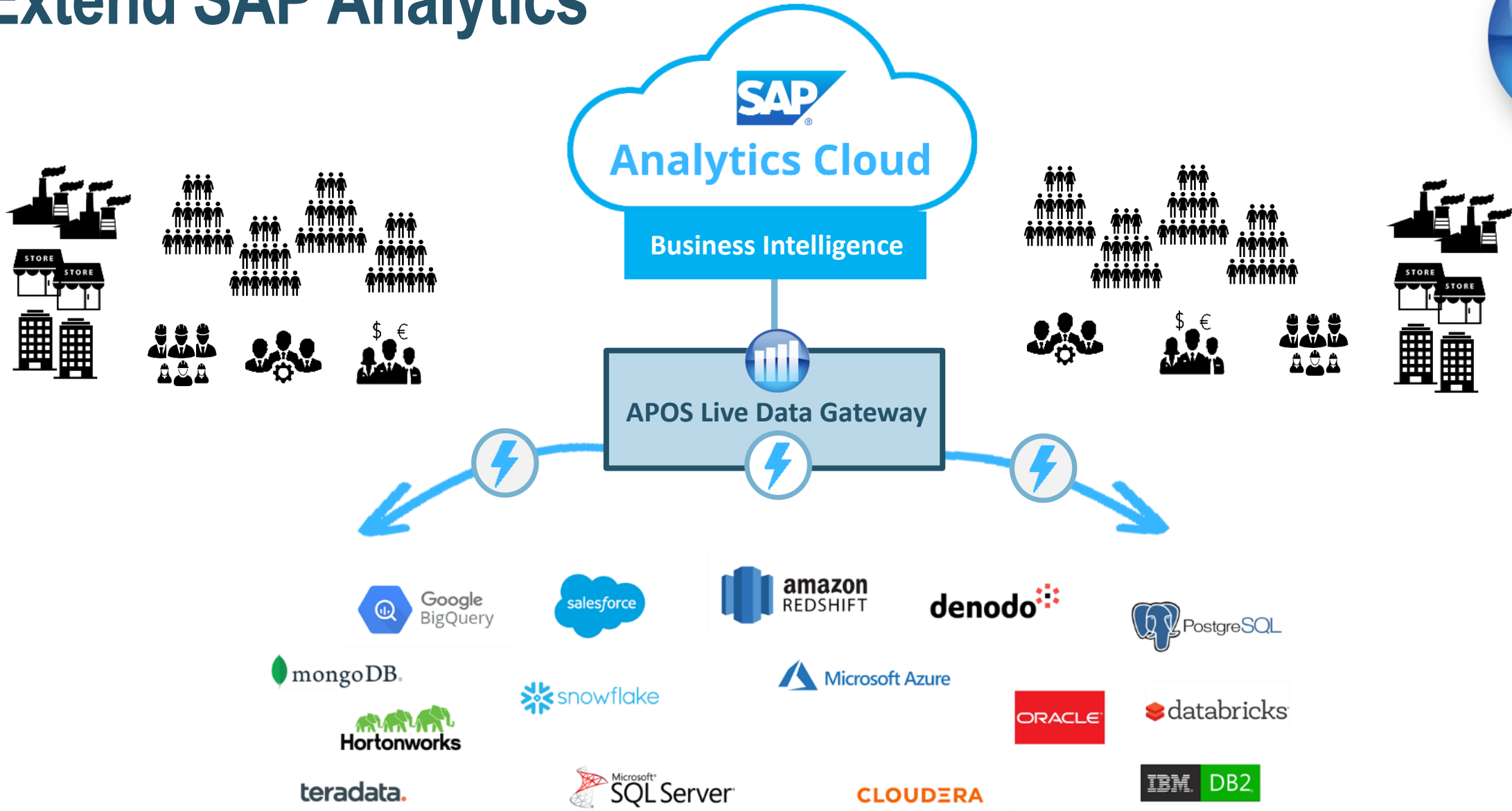
- Define what data is exposed
- Define measures and dimensions
- Manage data links & joins
- Set meaningful field names



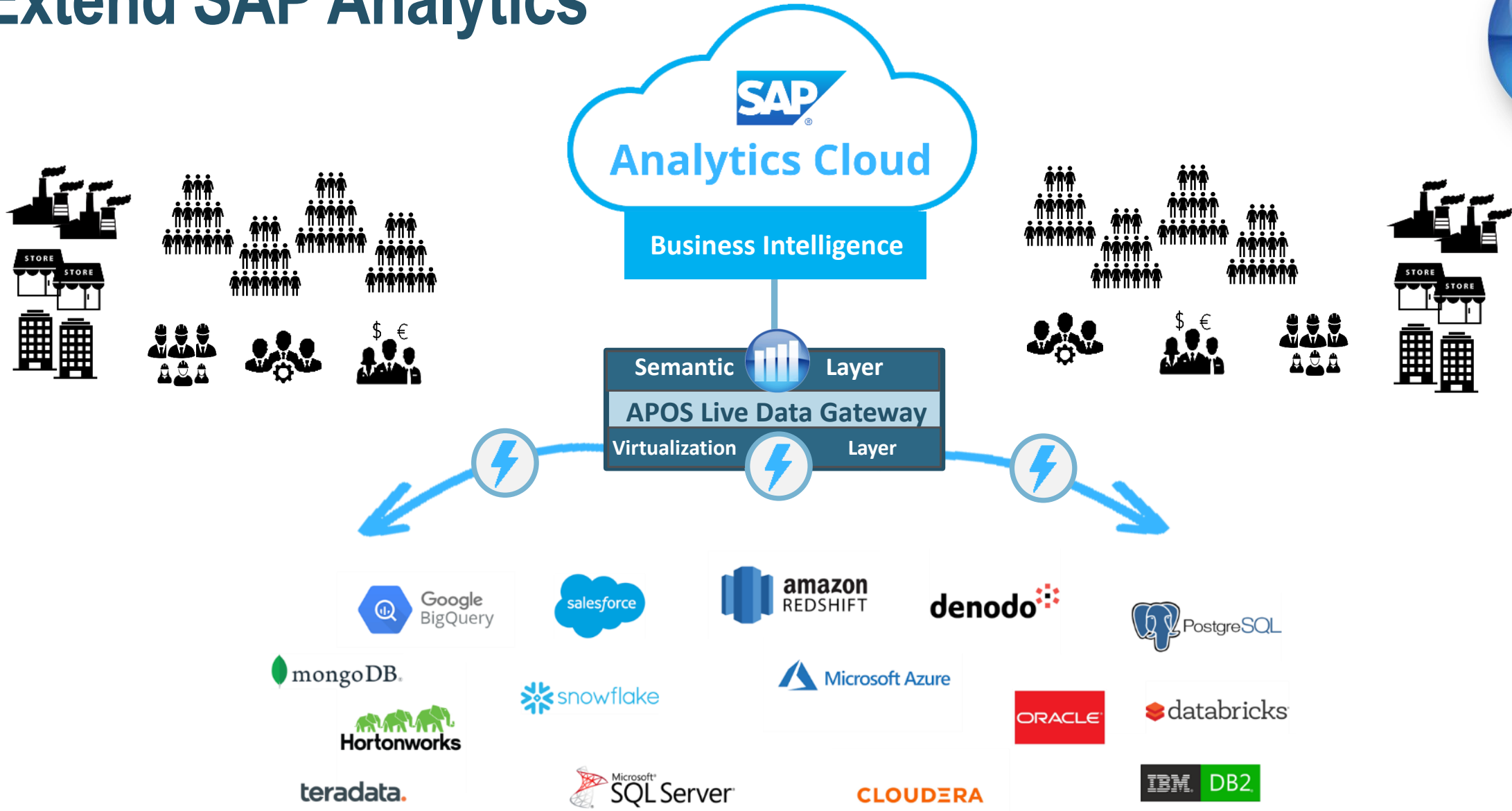
SAC Business Intelligence



Extend SAP Analytics



Extend SAP Analytics



Unify Analytics Data Connectivity



SAC Planning

SAP Data Platforms

Other BI Platforms

Semantic Layer Migration



Unify Analytics Data Connectivity



SAC Planning

- Data must be Imported into SAC for Planning
- Wide range of data sources supported by SAC for Import
- Unify connectivity and business layer



SAC Planning



Finance

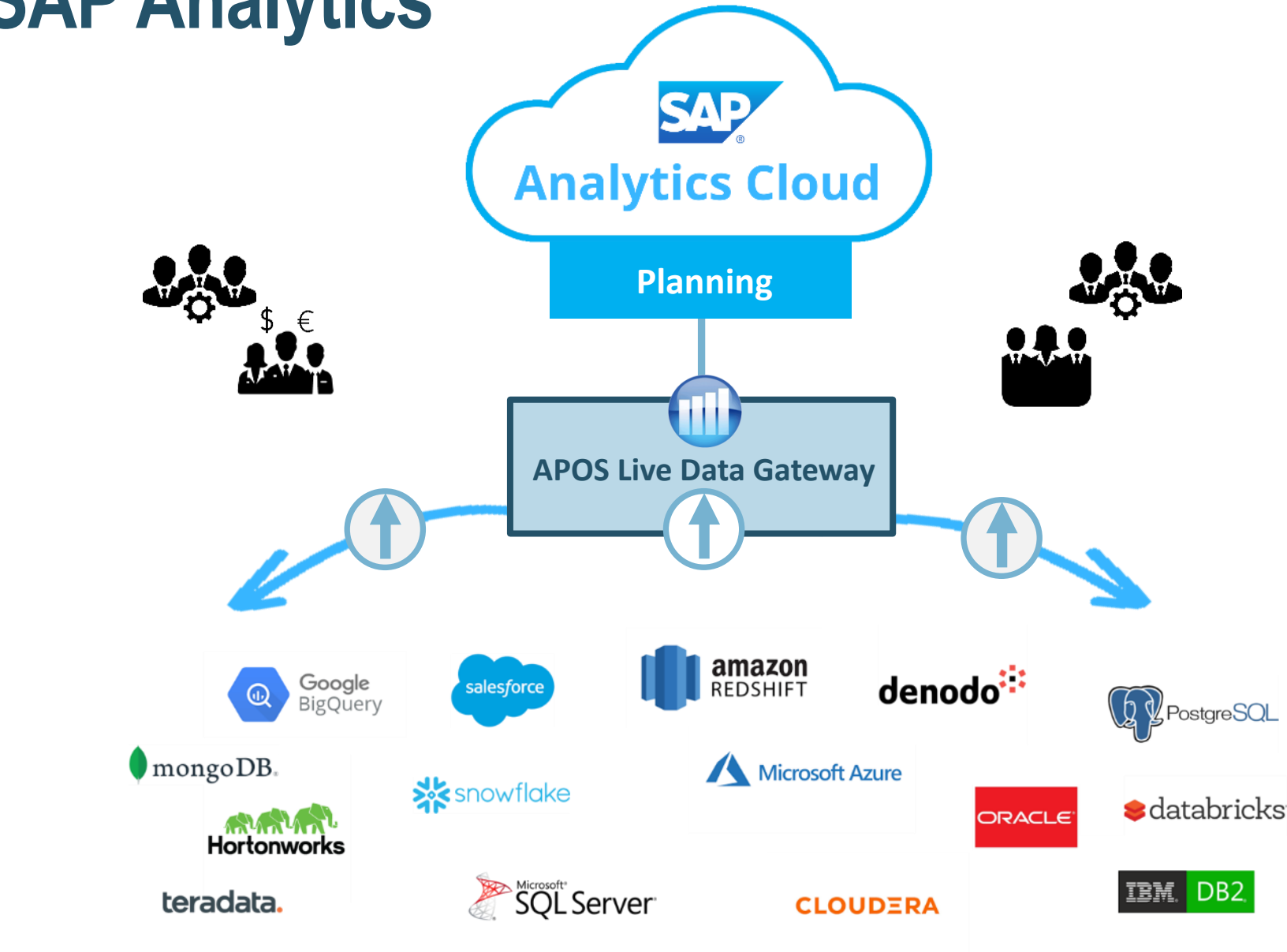


Executives

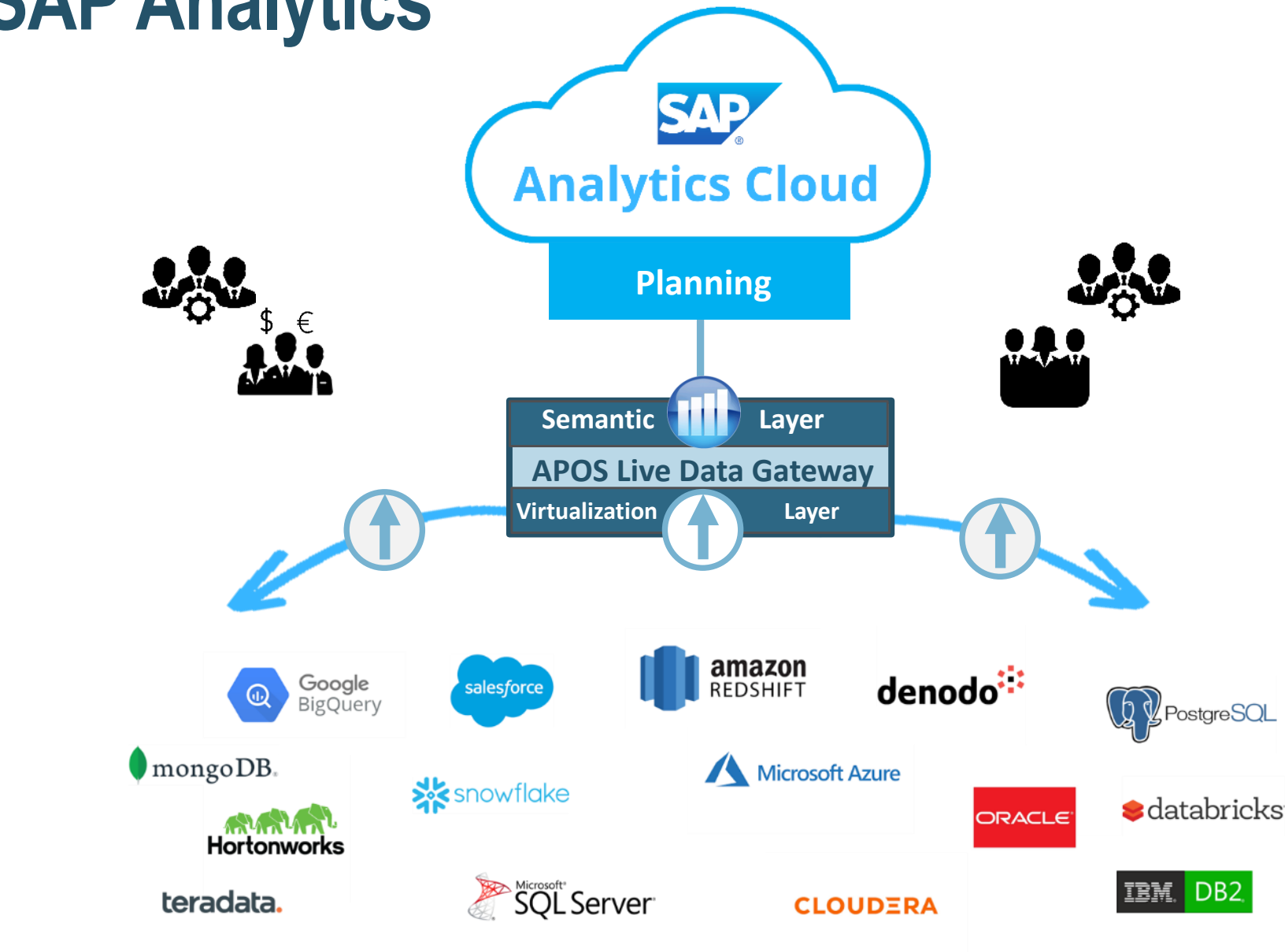


Sr. Management

Unify SAP Analytics



Unify SAP Analytics



SAC Planning

Create Import connection in SAC

APOS ODATA service provides
endpoint for Import in SAC



New OData Services Connection

Connection Information

*Connection Name

APOS_Import_ODATA

Description

Add an optional description here

☐ Connect to an SAP OData service ⓘ

☒ Connect to an On-Premise OData service

*Location

Default Location

*Data Service URL

https://aposworkshop1:8447/odata2ldg.svc/

ⓘ Anything following "?" is only used for authentication and will not affect queries.

*Authentication Type

Basic Authentication

*User Name

sa

*Password

.....

Create Cancel

SAC Planning



Select fields from APOS View to be used for the SAC Model for planning

Build OData Services Query

Available Data

Search

- SupplierOrders_
 - 22 APOS_Id
 - 22 PO_Generated
 - 22 TotalValue
 - AA Country
 - AA OrderClass
 - AA SupplierName
 - AA updatedate
 - AA Vendor
 - AA VendorType
 - AA WorkspaceType

Selected Data (9)

Clear Selection

22 PO_Generated	X	22 TotalValue	X	AA Country	X
AA OrderClass	X	AA SupplierName	X	AA updatedate	X
AA Vendor	X	AA VendorType	X	AA WorkspaceType	X

Filters

Set Incremental Load

Clear Selection

Back Create Cancel

SAC Planning

SAC Model is now enabled for use with SAC Planning

Model Options

☒ Enable Planning

Planning Date Dimension i

updatedate

☒ Fill empty ID cells with the "#" value i

Default Currency for Model

New features are available. [Check](#)

Files / New

File

Layout

Display

Actions

Details

Transform Log

Create Transform

	TotalValue	PO_Gene...	Vendor	updatedate	Workspac...	VendorTy	OrderClass
2	0	0	988	2020-04-22 16:43	QUALIFICATION	Internal	All Quality Cer
3	0	0	988	2020-04-23 10:39	QUALIFICATION	Internal	All Quality Cer
4	0	0	S17741988	2020-04-23 10:45	QUALIFICATION	Internal	All Quality Cer
5	0	0	S17741988	2020-05-01 11:59	QUALIFICATION	Internal	All Quality Cer
6	0	0	S17741988	2020-05-01 14:48	QUALIFICATION	Internal	All Quality Cer
7	0	0	S17741988	2020-05-01 15:15	QUALIFICATION	Internal	All Quality Cer
8	0	0	S17741988	2020-05-01 15:33	QUALIFICATION	Internal	All Quality Cer
9	0	0	S17741988	2020-05-20 20:02	QUALIFICATION	Internal	All Quality Cer
10	0	0	S17741988	2020-05-20 20:11	QUALIFICATION	Internal	All Quality Cer
11	82101800	1	S17741988	2020-04-15 16:33	PREFERRED	External	Category
12	1216	1	S17741988	2020-04-23 10:41	DISQUALIFICATIO	External	Category
13	82101800	1	S17741845	2020-04-30 15:17	PREFERRED	External	Category
14	441215	1	S17741845	2020-04-30 15:20	PREFERRED	External	Category
15	441215	1	S17741845	2020-09-02 11:23	PREFERRED	External	Category
16	0	0	S17741988	2020-04-22 16:42	QUALIFICATION	External	Company Narr
17	0	0	S17741988	2020-04-22 16:42	QUALIFICATION	External	Company Narr

SupplierOrders_precog__precogQuery

Rows: 288, Columns: 9, Dimensions: 7, Measures: 2

Model Requirements No issues detected

Model Information

Model Options

Default Currency for Model

USD

Create Model



SAC Planning



You can now build stories with Planning enabled against non supported SAP data sources

StoryData

FileInsertToolsDataDisplay

Page 1

SupplierOrders_precog_precogQuery7

	A	B	C	D	E	F	G
1	SupplierOrders_precog_precogQuery7		...				
2		Category	Actual				
3	Account						
4	TotalValue		13,154,096,521,540.00				
5							
6							
7							
8							
9							
0							
1							
2							
3							
4							
5							

DesignerControlsView

Builder

Rows

Account

1 Model Members

+ Add Measures/Dimensions

Columns

Category

+ Add Measures/Dimensions

Filters

Account (1)

TotalValue

Category (1)

public.Actual (Actual)

+ Add Filters

Properties

Planning

☒ Planning Enabled ⓘ

Default Settings

☐ Enter Mass Data Entry Automatically

Use Case Scenario



Global Soft Drink Manufacturer

- Live Connectivity to Snowflake for business intelligence purposes was a critical requirement in order for a successful SAC deployment. In addition to BI workflows, elements of the Snowflake data was beneficial for use in forecasting and business planning processes.
- Live Data Gateway serves data from Snowflake for both SAC Business Intelligence (Live connection) and SAC Planning (Import connection). The APOS Views used to simplify the complexities of the data, and act as a simplified business view into the Snowflake data for both BI and Planning.



Unify Analytics Data Connectivity

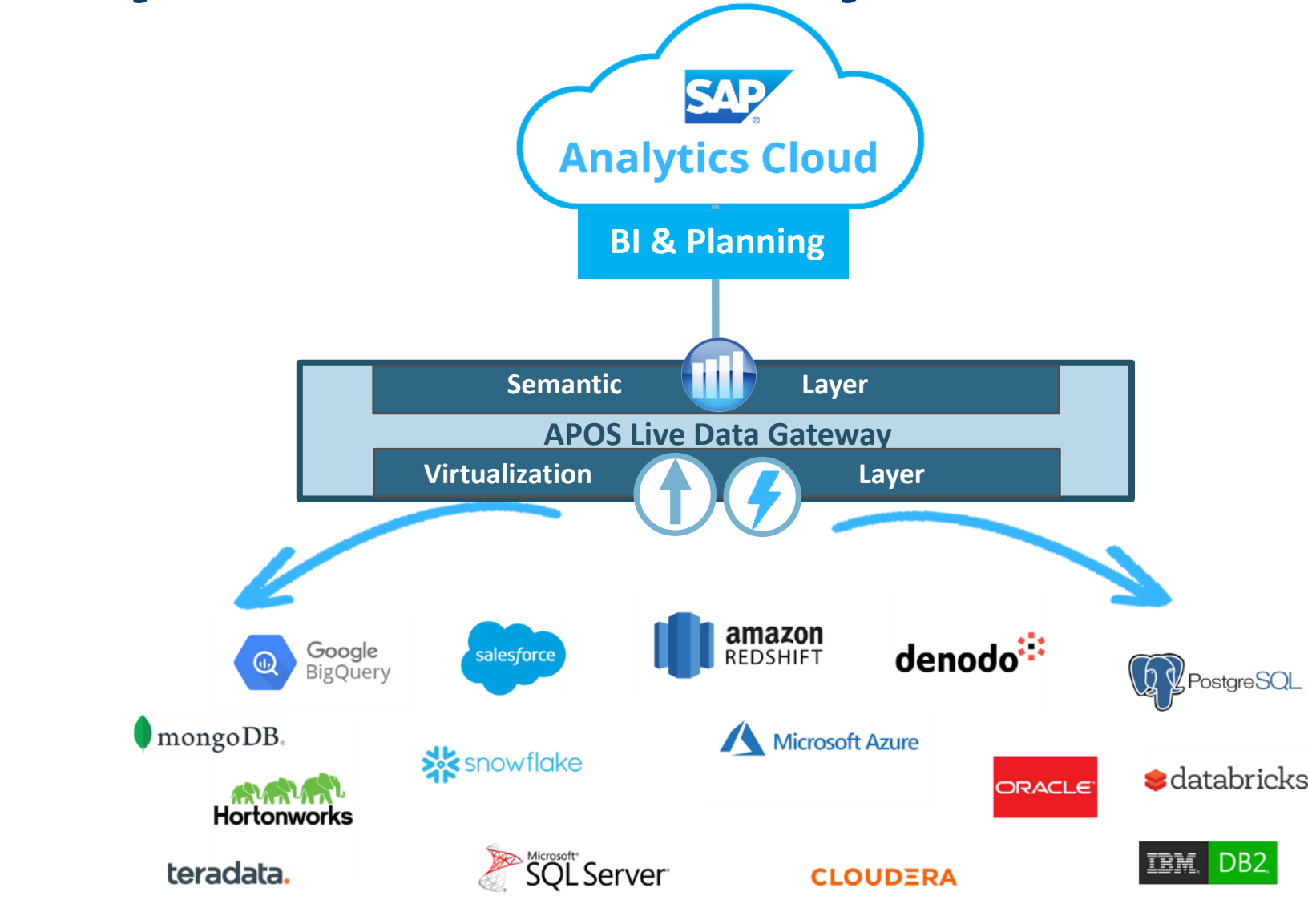


SAP Data Platforms

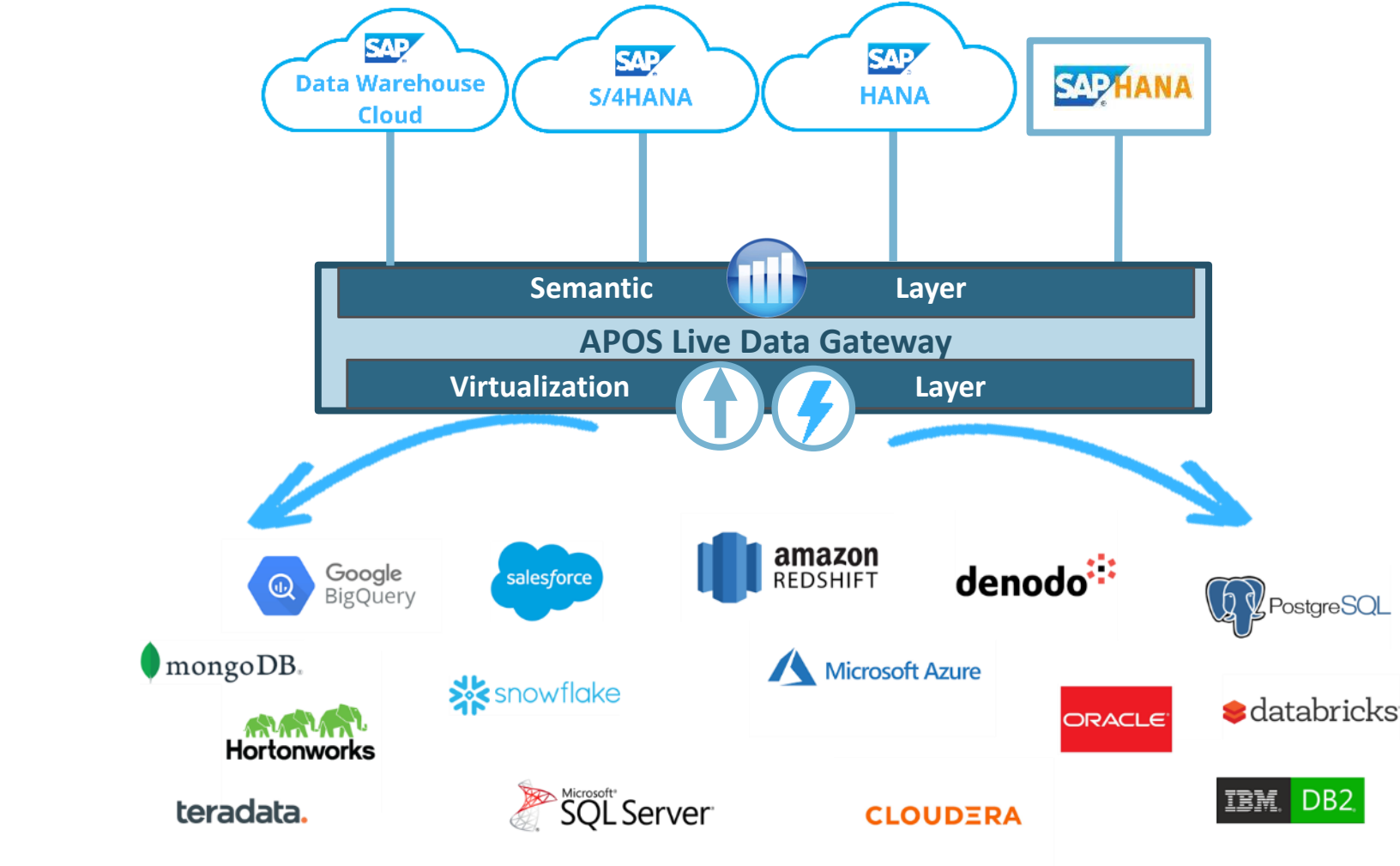
- SAP data environments leverage non-SAP data & Big Data sources
- Expanded Consumption protocols
- Live data and Import data



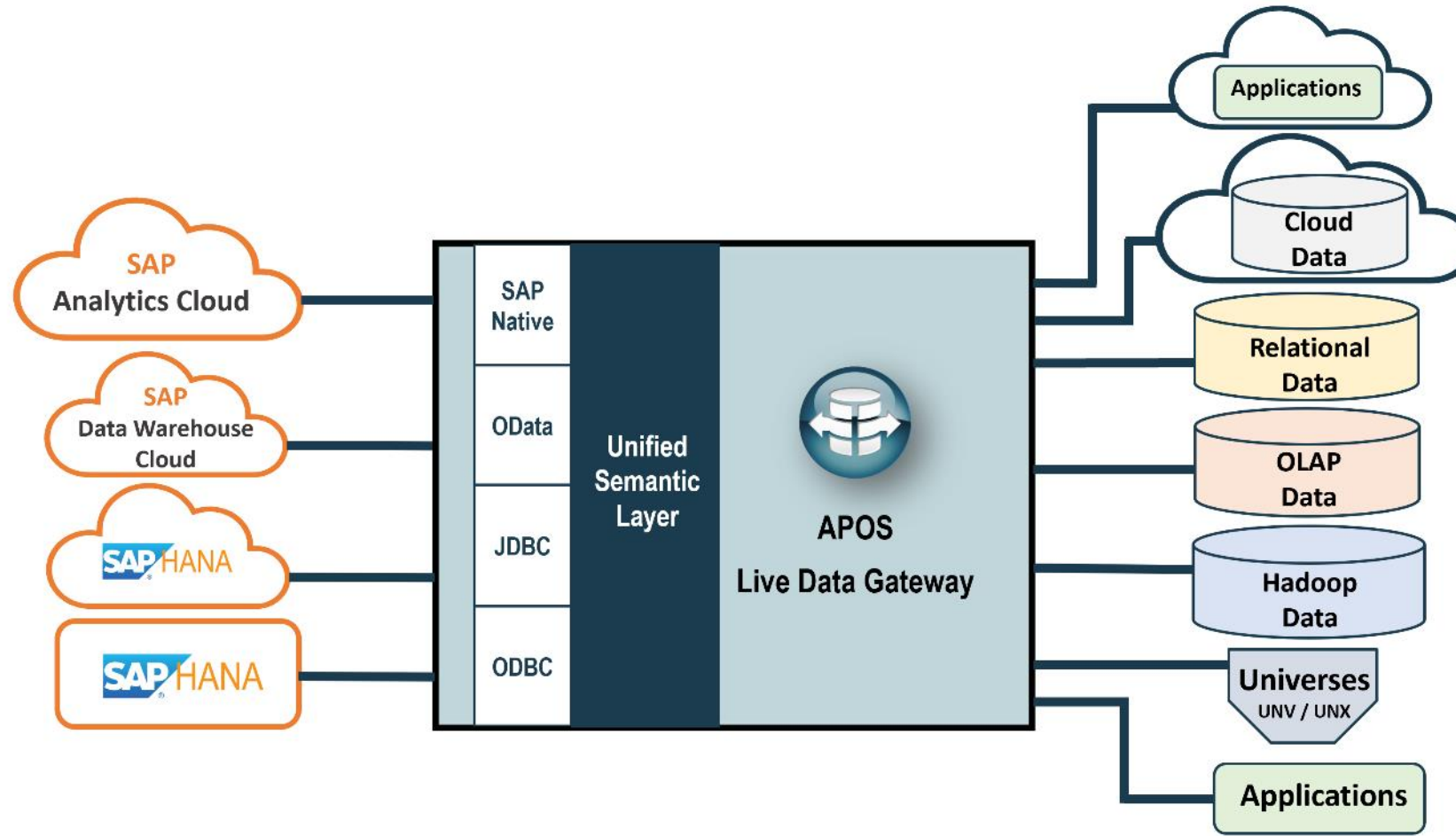
Unify Analytics Data Connectivity



Unify Analytics Data Connectivity



Unify Analytics Data Connectivity



Unify Analytics Data Connectivity - DWC



Snowflake data to be
utilized with SAP Data
Warehouse Cloud

Enjoy your free trial! Visit our documentation to learn more about using Snowflake

Databases Shares Data Marketplace Warehouses Worksheets History

New Worksheet

Find database objects

Starting with...

DEMO_DB

- INFORMATION_SCHEMA
- PUBLIC
- No Tables or Views in this Schema

SNOWFLAKE_SAMPLE_DATA

- INFORMATION_SCHEMA
- TPCDS_SF100TCL
- TPCDS_SF10TCL
- TPCH_SF001
- TPCH_SF1
- TPCH_SF10
- TPCH_SF100

Tables

- CUSTOMER
- JCUSTOMER
- JLINEITEM
- JNATION
- JORDERS
- JPART
- JPARTSUPP
- JREGION
- JSUPPLIER
- LINEITEM
- NATION
- ORDERS

Run All Queries Saved 3 days ago

1

Results Data Preview

Table: SNOWFLAKE_SAMPLE_DATA.TPCH_SF100.CUSTOMER Data Details

Filter result...

Row	C_CUSTKEY	C_NAME	C_ADDRESS
1	3228673	Customer#003228673	IY4LBTaRa8
2	3228674	Customer#003228674	nC6de3pc4R
3	3228675	Customer#003228675	LejXVTk6uMlwjfnTjbbP Wd7zGKjrX
4	3228676	Customer#003228676	IC fytWgoCS6F5lvYIP0i
5	3228677	Customer#003228677	Xrym9tUkIYGBUaaMSotPcdsJhoG...
6	3228678	Customer#003228678	usjQ3Ren5zBbVnlqdSKU
7	3228679	Customer#003228679	N1JxylMIZ4ICTP2jZt,d,8hom03dYZ...
8	3228680	Customer#003228680	IgbeAvyeKlsl1jdK0x3ZF

Unify Analytics Data Connectivity - DWC



Create connection in DWC

APOS ODATA service provides
endpoint for DWC

https://aposworkshop1:8447/od... SAP Data Warehouse Cloud

as-ui/index.html#/managespaces&/ms/APOS

APOS ODATA AdminWebUI CMC APOS Download Li... Sharepoint APOS

Create Connection

1 Choose Connection Type 2 Configure Connection Properties 3 Enter Name and Description

Generic OData ?

Connection Details

URL: *

Version: *

Cloud Connector

Use Cloud Connector:

Credential Mode:

Credentials

User Name: *

Password: *

Next Step

Unify Analytics Data Connectivity - DWC



APOS Semantic Layer Views are available as data sources in DWC

APOS ODATA service provides endpoint for DWC

The screenshot shows the SAP Data Builder interface for a LiveDataGateway. The left sidebar displays a tree view with 'Repository' and 'Sources' tabs. Under 'Sources', there is a search bar and a list of connections: 'ChicagoTaxi', 'GoogleBigQ', 'LDG', 'Northwind', 'ODATA2LDG', and 'LIVEDATAGATEWAY#MYSCHEMA'. The main workspace shows a graphical view with a 'ChicagoTaxi' data source connected to an 'Output' node. Below the workspace, there is a 'Data Preview: ChicagoTaxi (1000)' section showing a table of data.

APOS_Id	company	payment_type	trip_total	fare	trip_miles
1		Cash	0	0	1187
2		Cash	0	0	7375
3		Cash	1	460	683

Unify Analytics Data Connectivity – SAP HANA



The same connection and dataset can be consumed in SAP HANA

APOS ODATA serves as a connection for SAP HANA SDA Connection

The screenshot displays the SAP HANA Systems Explorer interface. On the left, the 'Systems' tree shows the hierarchy: HDB (DEV01) > HDB (SYSTEM) > Catalog > Public Synonyms > alanODATA_GBQ. A red arrow points from this entry to the main configuration pane on the right.

The main pane shows the configuration for 'HDB (SYSTEM) 172.16.0.116.00'. The 'Source Name' is 'alanODATA_GBQ' and the 'Adapter Name' is 'OData Adapter'. The 'Type filter' is set to 'Connection Properties'. The 'URL' is 'http://172.16.0.84:9090/odata-ldg-one/odata2ldg.svc/'. The 'Proxy Server' is empty. The 'Credentials' section shows 'Credentials Mode' as 'Technical user' and 'Password' as 'Not applicable'.

A red oval highlights the 'Provisioning' section, which includes 'Smart Data Access' and 'Remote Sources'. Under 'Remote Sources', the 'alanODATA_GBQ' connection is listed, with a sub-entry 'ChicagoTaxiTrips_GBQ_apos_bigdata'.

Unify Analytics Data Connectivity – SAP HANA



Virtual Tables can be created in HANA based on SDA connections using APOS Live Data Gateway

The screenshot shows the SAP HANA Studio interface. On the left, the 'SYSTEM' catalog is expanded, showing a list of tables. The table 'alanODATA_CreditOdataTest_SQLServerLive_Xtreme' is selected. On the right, the 'Raw Data' tab displays the query results. The results show 200 rows retrieved in 7 seconds and 66 milliseconds. The table has four columns: APOS_Id, Amount, Credit_Authorization_Number, and Customer_Credit_ID. The data is presented in a grid with alternating yellow and white rows.

APOS_Id	Amount	Credit_Authorization_Number	Customer_Credit_ID
1	-2,203.75	CR0034	5
2	-32.54	CR0041	40
3	-572.13	CR0047	43
4	-1,085.59997	CR0078	61
5	-1,109.06994	CR0117	15
6	-2,465.47998	CR0168	64
7	-231.82	CR0194	9
8	-146.35	CR0206	42
9	-558.78997	CR0296	68
10	-1,088.56005	CR0307	10
11	-1,275.85998	CR0375	62
12	-898.97998	CR0424	11
13	-482.57	CR0443	7
14	-2,136.47998	CR0453	68
15	-2,271.72998	CR0467	31
16	-1,998.01	CR0498	53
17	-158.47	CR0571	30
18	-1,144.67004	CR0629	55
19	-633.27001	CR0660	4
20	-1,347.33996	CR0694	69
21	-1,672.84997	CR0765	52
22	-191.17999	CR0773	48
23	-230.89999	CR0774	21
24	-2,495.56005	CR0776	49
25	-1,002.03002	CR0777	18
26	-156.47	CR0791	46
27	-1,560.45996	CR0839	36
28	-2,007.23999	CR0914	30
29	-1,675.13	CR1004	26
30	-446.80999	CR1025	68
31	-113.16999	CR1084	23

Unify Analytics Data Connectivity

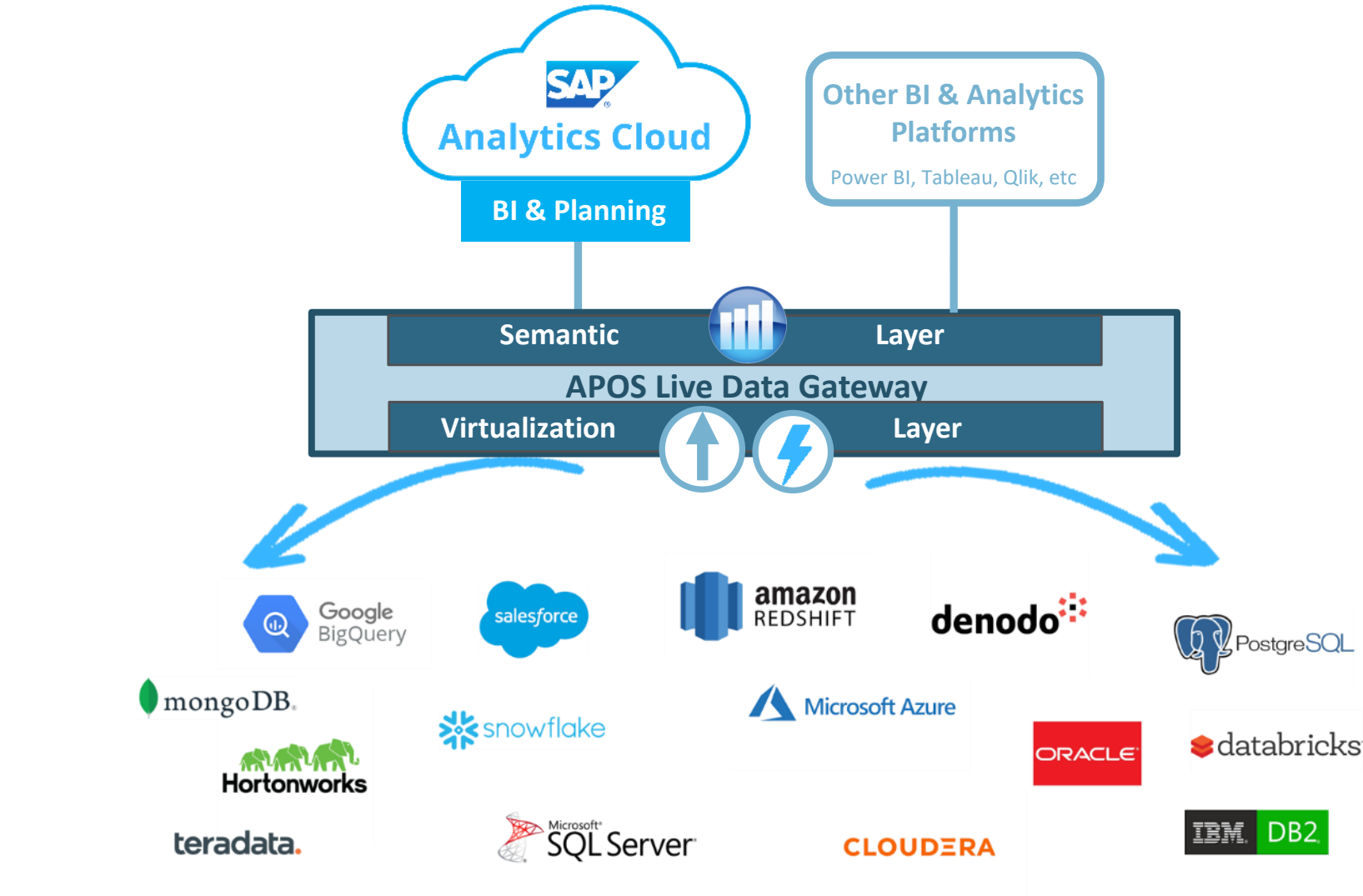


Other BI Platforms

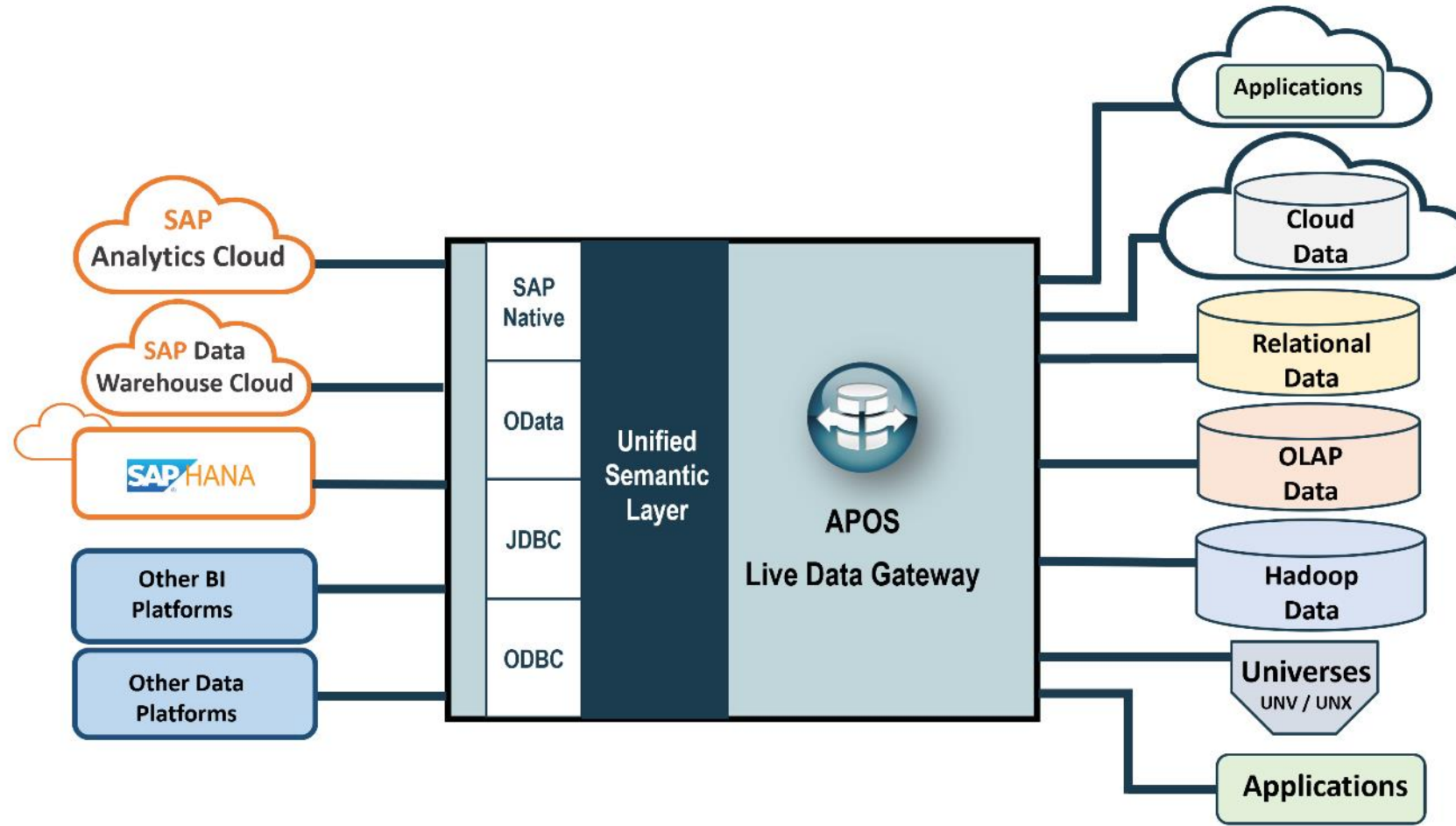
- Consistent connectivity important for all BI environments
- Simplified business layer beneficial for all BI environments
- Unified connectivity and semantic layer that can be utilized across BI environments



Unify BI & Analytics



Other BI Platforms – Consumption Protocols



The screenshot displays a Windows 10 desktop environment. In the foreground, two application windows are open:

- APOS Live Data Gateway Manager - C...**: This window shows a list of available connections. The 'SQLServer' connection is selected. The interface includes a 'File' menu, 'Views', and 'Help' options. At the bottom, there are buttons for 'Build Web Config', 'Add', and 'Edit'.
- APOS Live Data Gateway Admin**: This window is the configuration interface for the selected connection. It features a 'File' menu and two tabs: 'Connection' (active) and 'Extra Properties'.
 - Connection Tab**: Contains fields for 'Data Source' (set to 'Database'), 'Connection String' (set to 'Microsoft SQL Server'), 'Host:Port' (set to 'APOSWORKSHOP1\APOSWORKSHOP1'), and 'Database Name' (set to 'Xtreme'). The 'Connection String' field also displays the full string: 'jdbc:sqlserver://APOSWORKSHOP1\APOSWORKSHOP1;databaseName=Xtreme'. There is a checkbox for 'Use Windows Authentication' which is currently unchecked.
 - SSO Section**: Includes a checkbox for 'Use SSO' (unchecked) and a dropdown for 'Authentication Method'.
 - Buttons**: At the bottom right, there are 'Test Connection', 'Save', and 'Cancel' buttons.

The desktop background is the standard Windows 10 blue wallpaper. The taskbar at the bottom shows various icons, including the Start button, search, and several application shortcuts. The system tray in the bottom right corner shows the date and time as '12:00 PM 2/3/2021'.

Other BI Platforms



Similar example but with
Power BI

APOS Views are visible
once connected to Live
Data Gateway

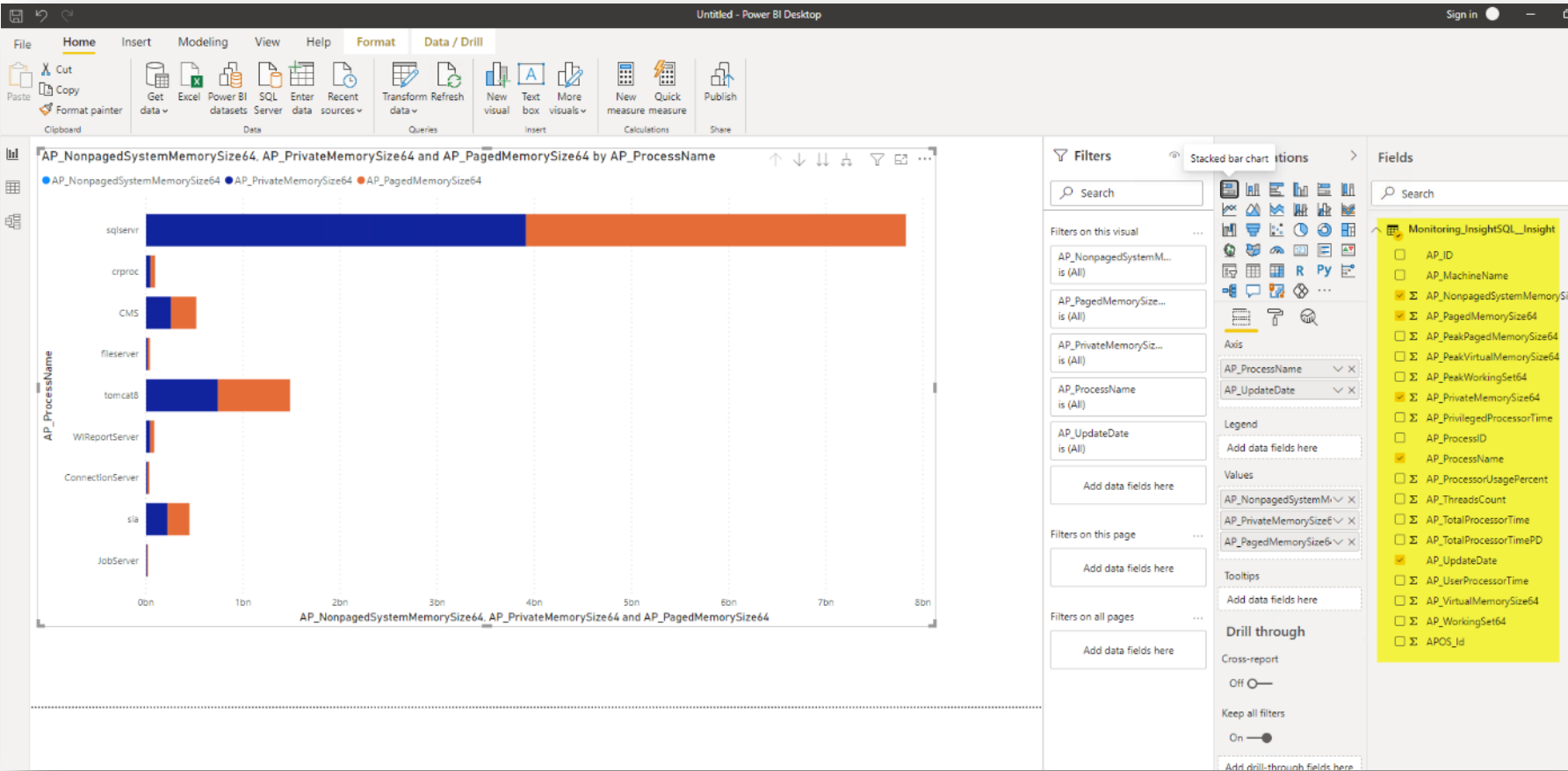
The screenshot shows the Power BI Desktop interface with the 'Navigator' pane open. The pane displays a list of data sources connected to the gateway. The 'Monitoring_InsightSQL_Insight' table is selected and highlighted in yellow. A blue arrow points from this table in the list to its preview on the right. The preview shows a table with two columns: 'APOS_Id' and 'AP_ThreadsCount'. Below the preview, there are buttons for 'Load', 'Transform Data', and 'Cancel'.

APOS_Id	AP_ThreadsCount
1	20
2	10
3	80
4	240
5	10
6	70
7	80
8	30
9	60
10	90
11	10
12	10
13	10

Other BI Platforms



Power BI dashboards built using APOS Live Data Gateway and the unified Semantic Layer



Use Case Scenario



Leading Healthcare Organization

- Multiple BI platforms are being utilized, and an objective was to have a data connectivity and semantic layer solution that could be shared across those BI environments, which includes Tableau and PowerBI
- Rather than having to recreated models/views on the database, Live Data Gateway can serve as the shared data connectivity platform, and the APOS Views within Live Data Gateway serve as the common business layer for their BI platforms, often targeting the same datasets for each platform



Unify Analytics Data Connectivity



Semantic Layer Migration

- Significant investment made into SAP BI modelling logic
- Leverage the value of that modelling logic



Semantic Layer Migrator



Translate SAP BI Modelling

Solution objectives:

- Automated, wizard-driven process to transition modelling
- Capture the data connections and data modelling logic from SAP BI that connect to relational data sources, and replicate the data connections and data modelling logic into Live Data Gateway modelling or HANA modelling
- Speed movement into Hybrid BI by leveraging SAP BI logic investment





**SAP
BusinessObjects**

**APOS Semantic
Layer Migrator**

**Live Data
Gateway**

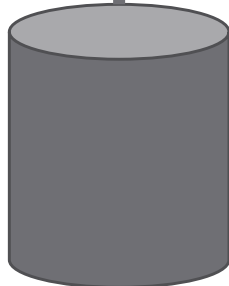
**Web Intelligence
Reports**



Universes
UNV / UNX



**Relational Data
Sources**



APOS Views

Web Intelligence SQL Statements are captured, optimized, and utilized to generate APOS Free-Hand SQL Views

APOS Views

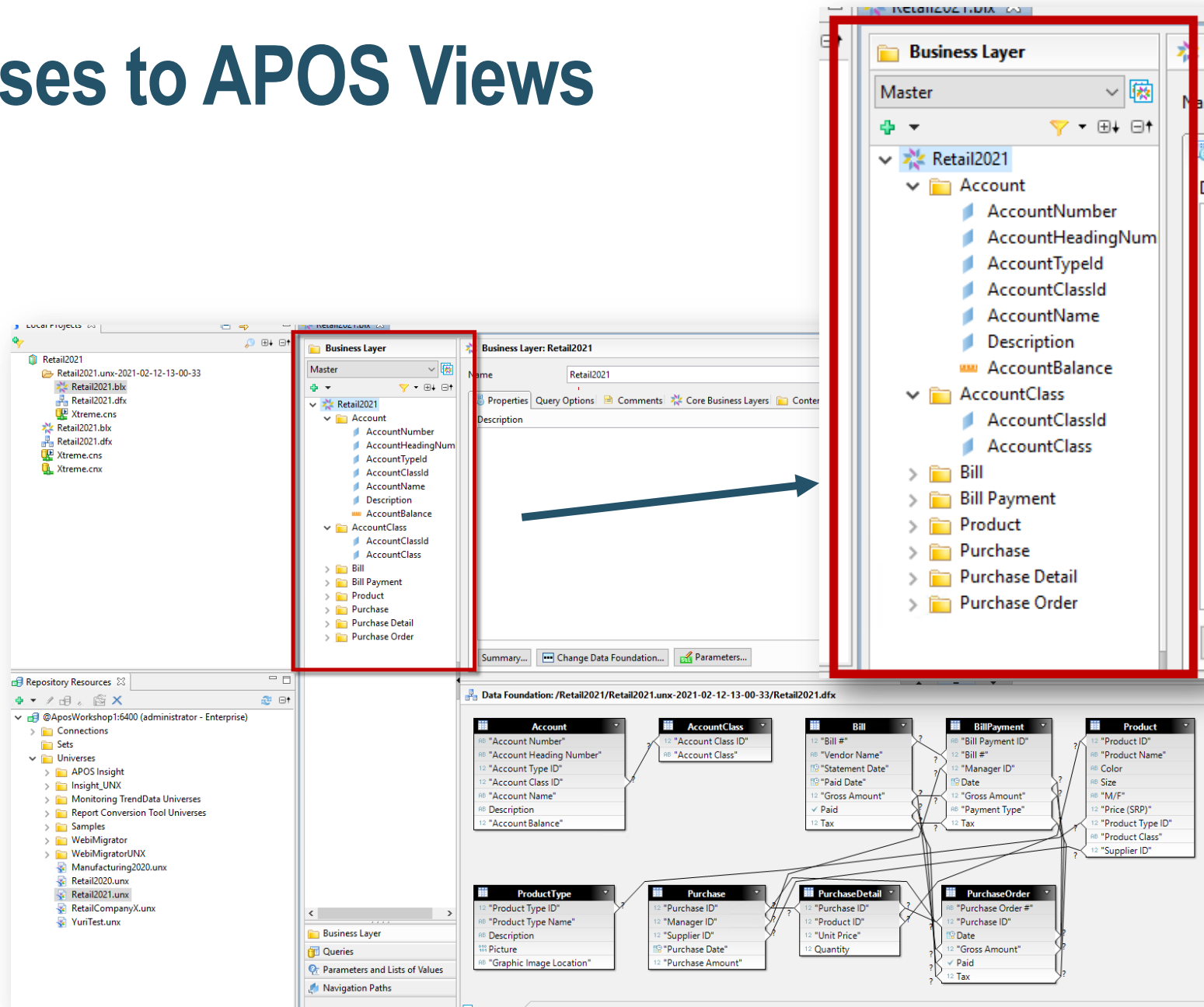
Universe modelling logic (data connections, table selections, table linking & joins, field selections, field names) are translated into an APOS Semantic View.

Source Data Unchanged

No movement or disruption of source data. Database views created to support modelling replication process.
No data is stored or cached in Live Data Gateway.

SAP BI Universes to APOS Views

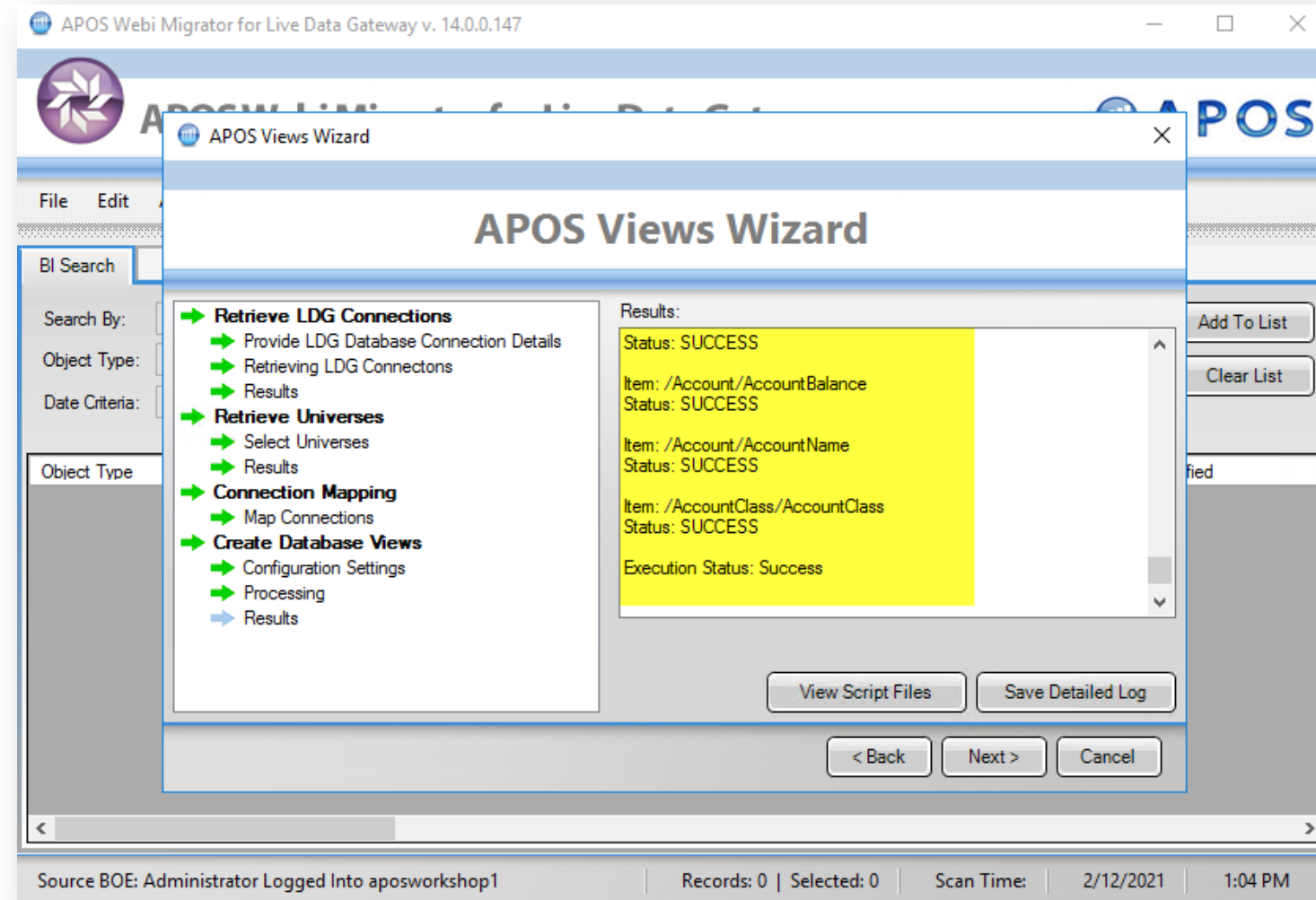
Example of a Universe
and the modelling
logic to be translated



SAP BI Universes to APOS Views



APOS Semantic Layer Migrator allows you to translate the Universe modelling logic into an APOS View



SAP BI Universes to APOS Views



The resulting APOS Views are then available for use within the Live Data Gateway

<

🏠

APOS Live Data Gateway - Admin Tool Web

sa

Listing Semantic Layer Views

Connection Name:

SQLServer

Semantic Layer View Name

🔍

📄

New Semantic Layer View

Name	Description	Action		
Account	Account	✎	🔗	🗑
DLT	DLT	✎	🔗	🗑
FresnView_1	FresnView_1	✎	🔗	🗑
NewVeiw432		✎	🔗	🗑
NewviewName	NewviewName	✎	🔗	🗑
Retail2021_MainTables		✎	🔗	🗑
Retail2021_SalesDerivedTable		✎	🔗	🗑
ViewName321		✎	🔗	🗑
ViewName3		✎	🔗	🗑

SAP BI Universes to APOS Views



SAC models can be built against the translated APOS Views

Measures and dimensions have come from the translated Universe

New features are available. [Check them out.](#)

Files / New Model

Data sources

All Dimensions

Measures

ID	Description	<input type="checkbox"/> Hide
AccountClass	AccountClass	<input type="checkbox"/>
AccountClassID	AccountClassID	<input type="checkbox"/>
AccountClassID_dbo_AccountClass	AccountClassID_dbo_AccountClass	<input type="checkbox"/>
AccountHeadingNumber	AccountHeadingNumber	<input type="checkbox"/>
AccountName	AccountName	<input type="checkbox"/>
AccountNumber	AccountNumber	<input type="checkbox"/>
AccountTypeID	AccountTypeID	<input type="checkbox"/>
BillPaymentID	BillPaymentID	<input type="checkbox"/>
Bill_dbo_BillPayment	Bill_dbo_BillPayment	<input type="checkbox"/>
Date	Date	
Description	Description	
GrossAmount_dbo_BillPayment	GrossAmount_dbo_BillPayment	
ManagerID	ManagerID	
Paid	Paid	
PaidDate	PaidDate	
PaymentType	PaymentType	
StatementDate	StatementDate	

New features are available. [Check them out.](#)

Files / New Model

Data sources

All Dimensions

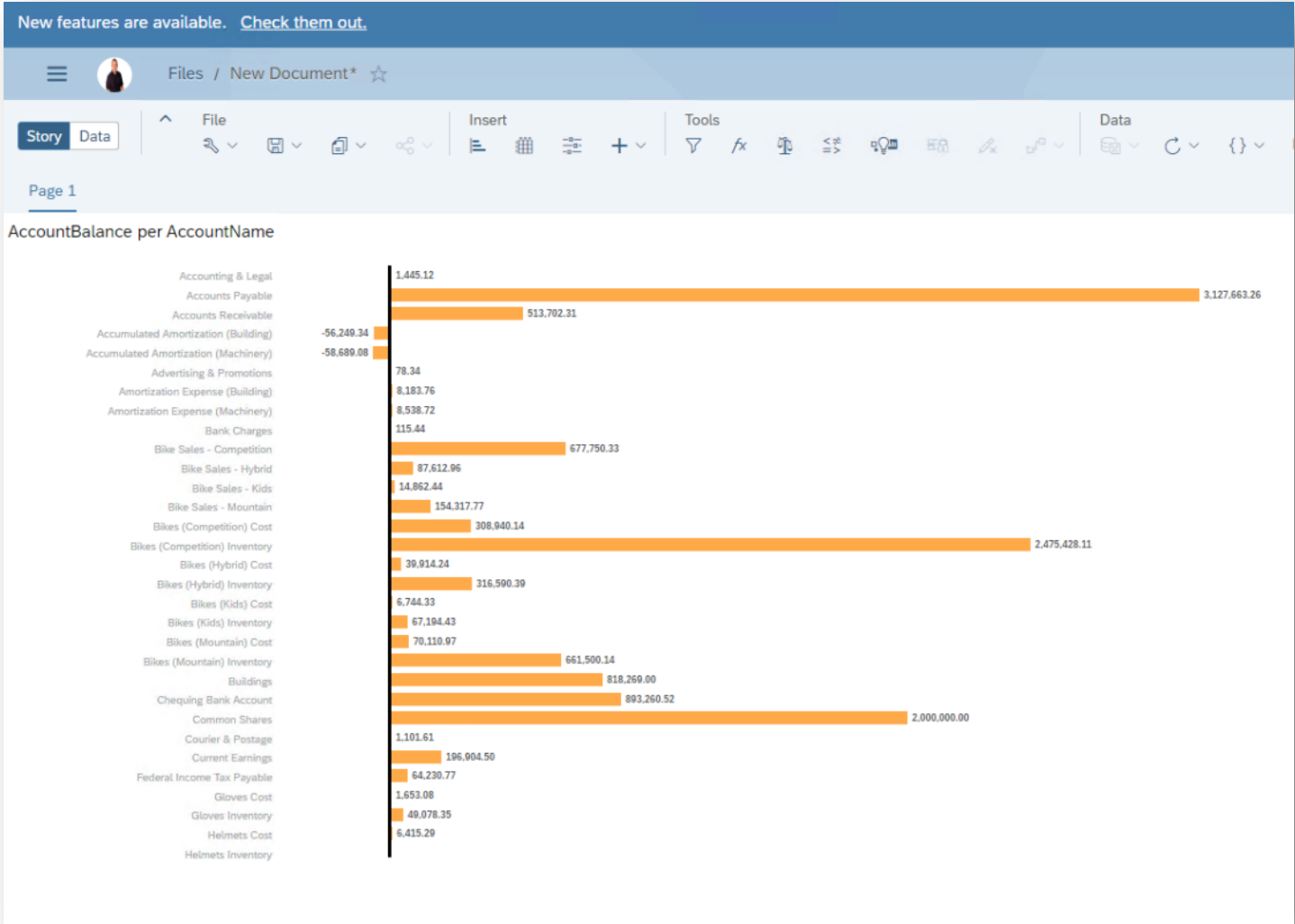
Measures

ID	Description	Aggregation Ty...	Exception
1	AccountBalance	AccountBalance	SUM
2	Bill	Bill	SUM
3	GrossAmount	GrossAmount	SUM
4			
5			

SAP BI Universes to APOS Views



SAC stories can be built connecting live to the relational database, but with the Universe modelling logic incorporated





**SAP
BusinessObjects**

**APOS Semantic
Layer Migrator**

**SAP
HANA**

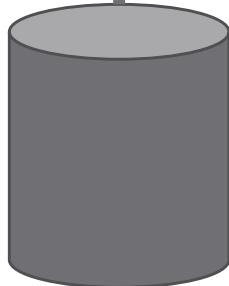
**Web Intelligence
Reports**



Universes
UNV / UNX



**Relational Data
Sources**



HANA Calculation Views

Web Intelligence SQL Statements are captured, optimized, and utilized to generate HANA Calculation Views

HANA SDA Connections

HANA SDA connections are created for each table listed in the Universe. Universe derived tables replicated as database views.

Source Data Unchanged

No movement or disruption of source data. Database views created to support modelling replication process.

Use Case Scenario



Large Aerospace Organization

- They have heavily invested in the SAP BI platform, and use BOE Universes as their main semantic layer for reporting.
- They want to leverage the modelling logic behind these Universes for other tools (Tableau) and need a way to allow their report designers to create reports based off that modelling.
- Semantic Layer Migrator allows translation of the Universe logic into APOS Semantic Layer Views, and then utilize those APOS Views as the data connectivity point, with modelling logic retained.



Unify Analytics Data Connectivity



SAC Planning

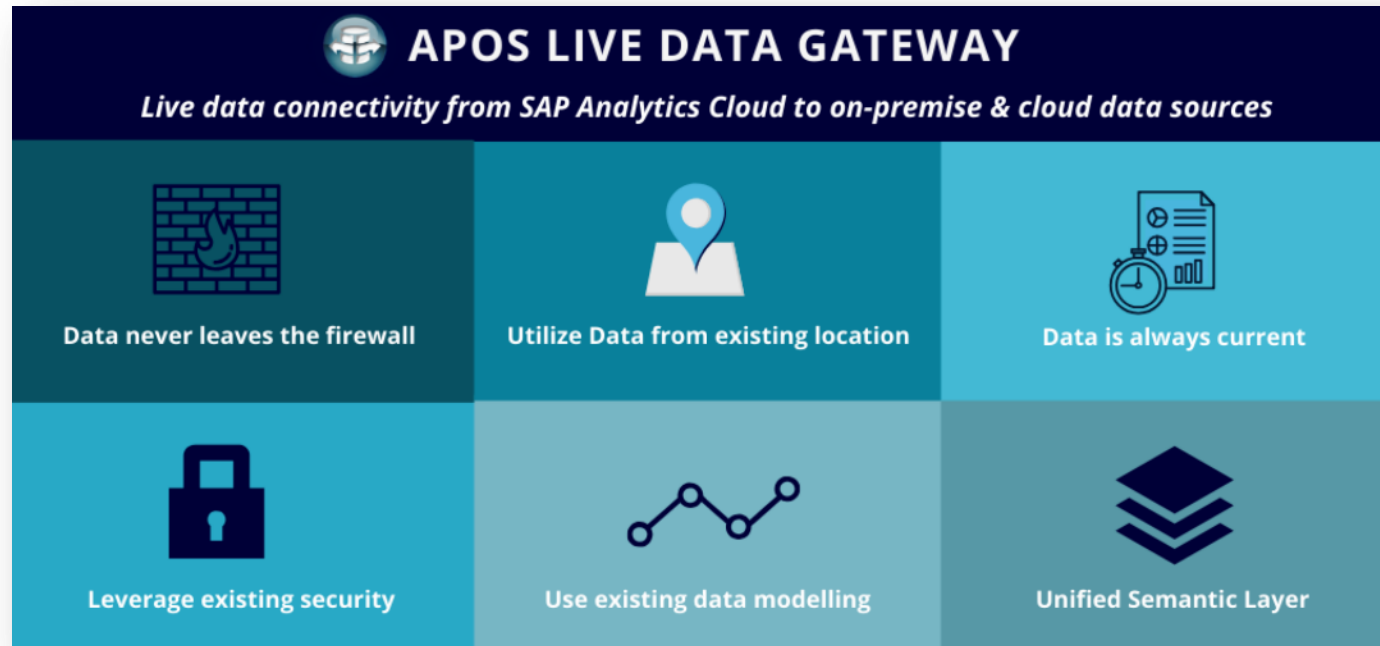
SAP Data Platforms

Other BI Platforms

Semantic Layer Migration



APOS Live Data Gateway



Next Steps:

- Questions
- Solution Videos – www.apos.com
- Solution Demonstration – APOS Account Manager
- Evaluation / Proof of Concept



APOS Solutions for SAP Analytics Cloud



APOS Live Data Gateway

- Live Connectivity from SAC to wide range of data sources



APOS Semantic Layer Migrator

- Automated translation of SAP BI Modelling to HANA and Live Data Gateway



APOS Publisher for Cloud

- Bursting and Distribution of SAC content



APOS Insight for Cloud

- Enhanced Monitoring, Auditing and Validation of SAP Analytics Cloud



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



Extend Analytics Content with Distribution of Tailored Content - *Webinar*

March 4, 2021 – 11 am EST

Distributing SAP Analytics Cloud content is all about getting the right content (and only the right content) in the right format to the right people at the right time. Getting distribution right comes down to:

- **Formats** – Consider the most usable format for the recipients.
- **Destinations** – Consider which destinations work best for recipients.
- **Bursting** – Schedule timely delivery of content.
- **Selective Page Distribution** – Give users only the content they need to succeed.



Register at www.apos.com

Upcoming Events



Simplify Your SAP BusinessObjects Upgrade Migration Execution - *Webinar*

March 18, 2021 – 11 am EDT

In a previous webinar, we discussed planning and preparation for upgrading your SAP BI deployment. In this webinar we discuss activities to assist in efficient and effective migration execution, including:

- **Migrating content** – moving reports, universes, users, groups & security settings
- **Simplifying & optimizing** – excluding unused reports, combining similar reports, adjusting BI licensing, converting to UNX universes
- **Securing & protecting** – setting folder security by user group, implementing a content backup & restore strategy
- **Creating validation projects** – implement your test plan using



Register at www.apos.com

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QUESTIONS

Please enter your questions in the Q&A panel.



Thank You!

Get in Touch

WEBSITE

www.apos.com

EMAIL ADDRESS

info@apos.com

PHONE NUMBER

(+1) 519 894 2767

