



SAP Data Warehouse Cloud – session 2

Kenneth Dalvik - SAP Svenska

PUBLIC



THE BEST RUN The SAP logo, featuring the letters "SAP" in white, bold, sans-serif font, with a blue triangle pointing to the right, all on a dark blue background.

AGENDA

- Intro
- SAP DWC Key features
- SAP DWC positioning & Use cases
- SAP DWC vs Competition
- SAP DWC unique feature
- Summary



SAP Data platform & Analytics

Complete offering & statement of direction



ANYPREMISES

SAP BW/4HANA and SAP HANA for SQL data warehousing are the strategic solutions for on-premises and private cloud data warehousing.

HYBRID

SAP Data Warehouse Cloud extends your existing data warehousing investment to support hybrid cloud.

CLOUD

SAP Data Warehouse Cloud is the strategic public cloud product offered as a software service managed by SAP.



SAP Data Warehouse Cloud

A scalable, open, and persona-driven warehouse as-a-service tailored for business and IT

Version 2020.21

PUBLIC

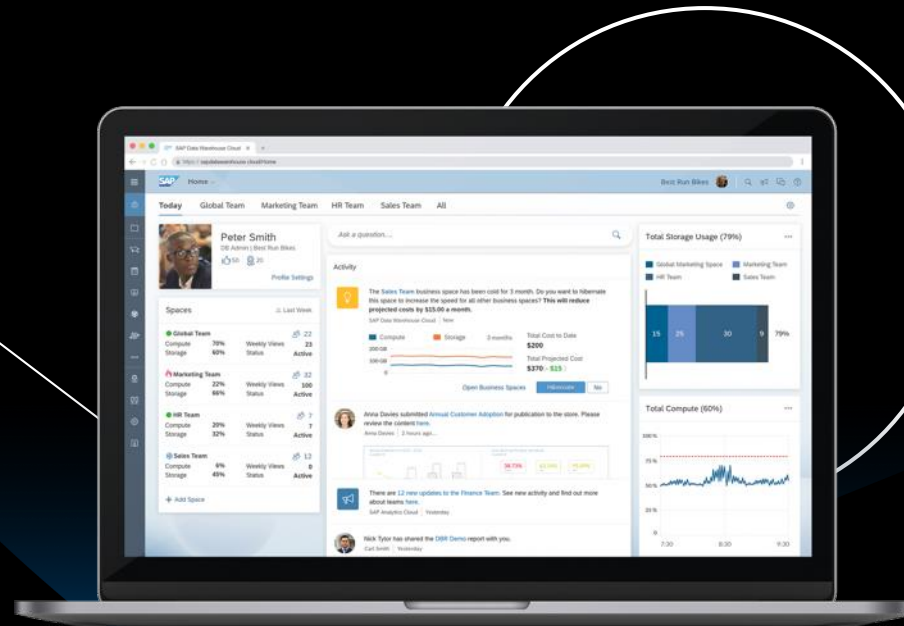
SAP Data Warehouse Cloud is _____.

COLLABORATIVE

Designed for both enterprise IT and line of business users to manage and gain valuable insights. Self-service data modeling.

FAST

Leverage the power of SAP HANA to instantly access the data you need, when you need it, without front-loaded costs. Use federation technology to combine sources virtually



END-TO-END

Integrate data from any source and consume with powerful native analytics and business semantics.

ELASTIC

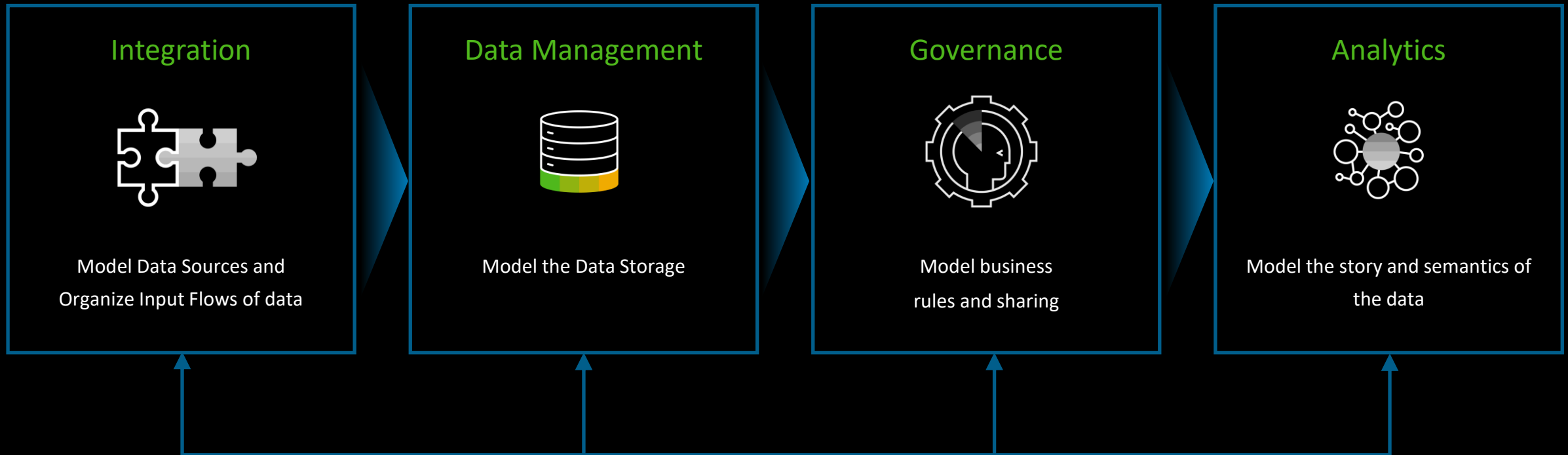
Only pay for what you use and re-allocate resources quickly and easily across different use-cases and lines of business. Separation of storage & compute

Key Features



The Problem: Most Solutions only Manage Data

Most solutions only focus on the data management. A change in one part, often means manually changing the other parts.



Traditional solutions solve each stage with a different tool and a different model. The end user is left to reconcile models as and when they change.

SAP Data Warehouse Cloud

The **most complete end-to-end enterprise-grade** data warehouse in the cloud



Business Integration

- Semantics
- Content
- Any data Ingestion, any source
- Standard integration

Database

- Data Tiering
- Elasticity
- Performance
- HANA Data lake

Data Warehouse Services

- Advanced Modeling
- Collaboration & Governance
- Data Lifecycle Management
- HANA Cloud modeling

Analytics

- Augmented BI
- Planning
- Seamless Integration

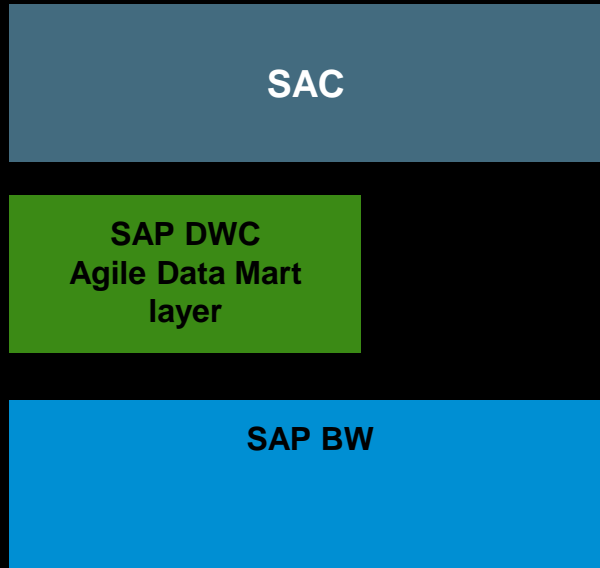
SAP Data Warehouse Cloud Positioning



Use case examples



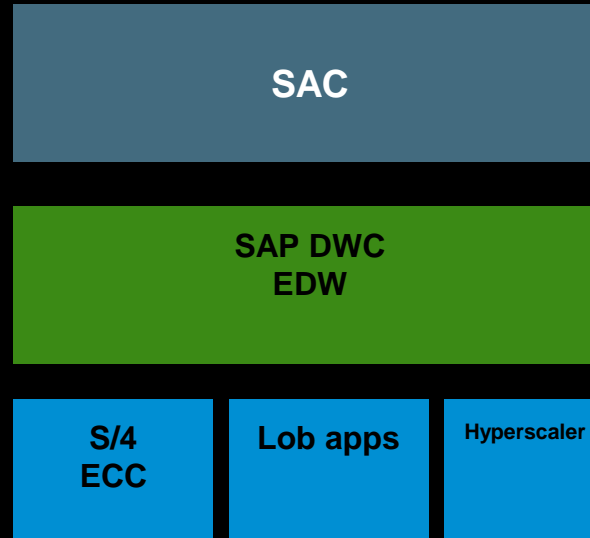
Self-service Data modeling



- Extend SAP BW with SAP DWC
- Self-service data modeling & Analytics (Agile Data mart + BI tool)



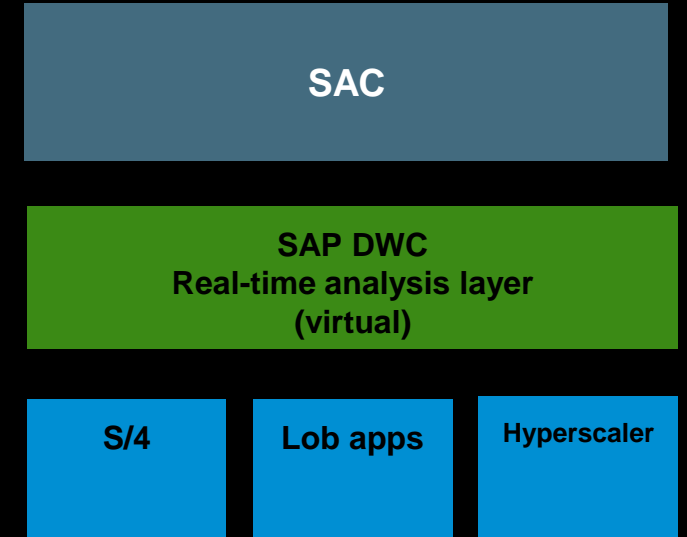
EDW



- Modern Cloud DW + more
- SAP DWC & HANA Cloud = True
- Powerful analytics
- Data lake included
- Recommended for new SAP S/4 HANA customers



Operational cross system analysis



- Prebuilt content
- Real-time analytics on multiple systems incl Hyperscalers

Use case 1: Self-service / Agile data mart on BW



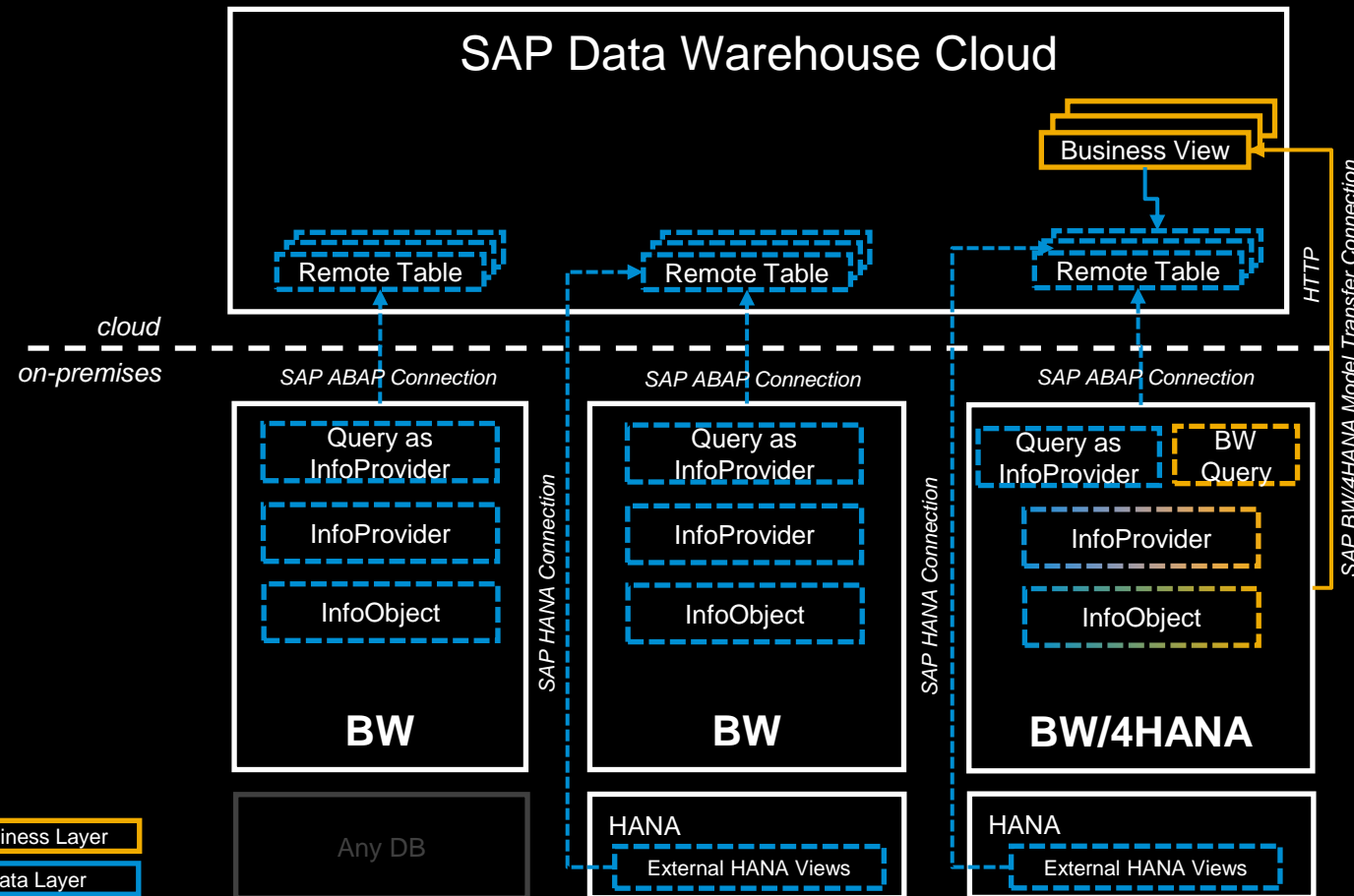


Data Sources & Ingestion: SAP BW Integration Overview

- Two different ways available for integrating SAP BW & SAP BW/4HANA systems:

- Scenario 1: Federated/replicated **data consumption scenarios** via
 - ABAP connection
 - External SAP HANA Views (SAP HANA connection)
- Scenario 2: Federated/replicated **business semantics integration scenarios** via SAP BW/4HANA Model Transfer connection*

- BW query as Business layer only available for SAP BW/4HANA via SAP BW/4HANA Model Transfer connection*



SAP Data Warehouse Cloud & SAP BW/4HANA

Scenario 1 – Data layer

Ad-hoc data exploration



Powerful visualization

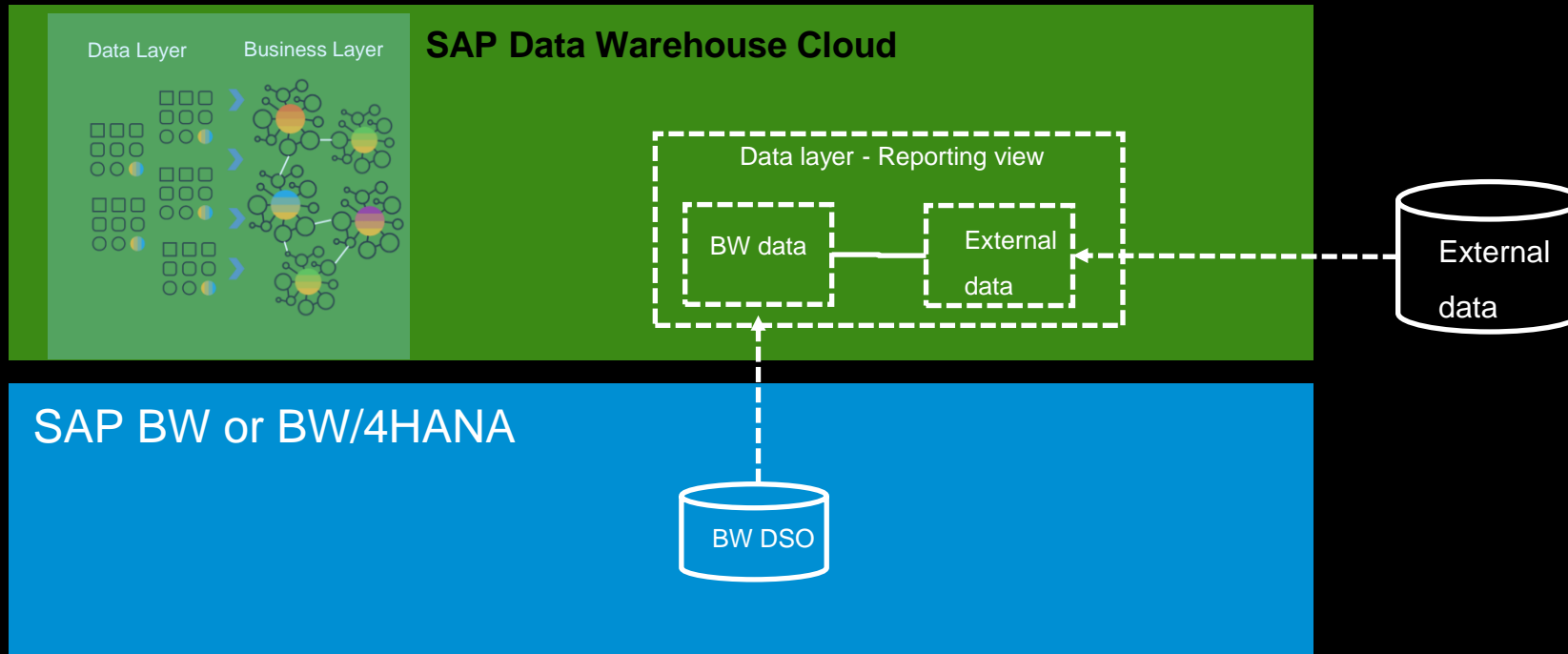


SAP Analytics

Intelligent augmentation



Business planning



SAP Data Warehouse Cloud & SAP BW/4HANA

Scenario 2 – Business & Data layer

Ad-hoc data exploration



Powerful visualization

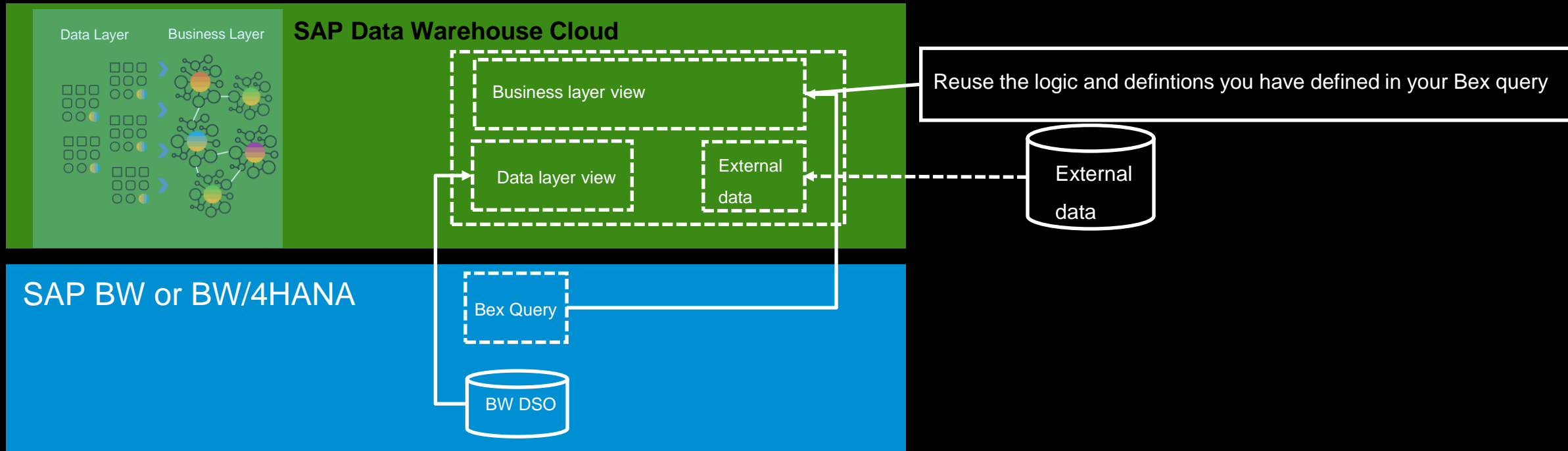


SAP Analytics

Intelligent augmentation



Business planning



SAP Data Warehouse Cloud

CUSTOMER STORIES:



Reduced
prep time for sales calls
from days to hours

>6
non-SAP sources
connected by 2022

3000
analytics users

Data is an essential part of **Porsche's** mission of intelligent innovation. To get the most out of their data, Porsche successfully modernized their entire data landscape with SAP. First, they deployed SAP Analytics Cloud to streamline sales data for their global network of dealerships. Now, with SAP Data Warehouse Cloud, they brought data-driven capabilities to the rest of the organization.

PAIN POINT

- ✗ Lacked efficiency when utilizing multiple spreadsheets to extract and analyze data
- ✗ Manual process meant that preparing for sales meetings could take days and slow down the closing of deals.
- ✗ Data was siloed in multiple sources

SOLUTION

- ✓ Consolidated all data sources into one end-to-end data to analytics solution, SAP Data Warehouse Cloud
- ✓ Connected non-SAP data (S3, MS SQL Server, Oracle, DynamoDB, Fileshares) with SAP data (BW/4HANA)
- ✓ Gained a broader view of sales data and accelerated the closing of deals with all the information presented in one SAP Analytics Cloud dashboard
- ✓ Cut prep time for sales meetings from days to a mere hours
- ✓



"We used SAP Analytics Cloud and SAP Data Warehouse Cloud to improve efficiency, performance, and intelligence. Together, these two solutions helped us transform our data capabilities throughout the company. We needed to bring together all our existing systems and ensure that the right end-users could easily access the data they needed. SAP Data Warehouse Cloud was the perfect solution to transform our data architecture without a heavy investment."

Markus Hartmann
IT Project Management Lead at Porsche

For more details [check out the blog](#) on Porsche and SAP Data Warehouse Cloud



SAP Data Warehouse Cloud

CUSTOMER STORIES:

VELUX®

For more than 75 years, **VELUX** has been bringing daylight and fresh air into people's lives with their line of products. While the Danish manufacturer's products are physical – roof windows, skylights, and the like – their data is one of their key assets. With this data, they can gain a deep understanding of their customers in the 40 countries, where they have a sales presence.

PAIN POINT

- ✗ Inflexible, slow process where IT would create queries based on requests from business users
- ✗ Hybrid solution needed to combine the cloud with on-premise investments
- ✗ No data from all relevant sources available for reporting.

SOLUTION

- ✓ Provides self-service modeling and reporting allowing business users to make immediate impact
- ✓ On-premise data source seamlessly connects with SAP Data Warehouse Cloud, without replication
- ✓ Ability to create scalable models that can be reused multiple times



"We now have a tool at hand that goes far beyond the modeling capabilities of a BI tool. We can give our business users flexibility and also make sure that we govern and protect the data."

Andreas Madsen
Senior Data and Analytics Partner at VELUX

For more details [check out the blog](#) on Velux and SAP Data Warehouse Cloud



SAP Data Warehouse Cloud

CUSTOMER STORIES: *Vestas*

50
business users by Q4
2021

Reduction
in IT lead times from
months to days

2500
users of SAP
Analytics Cloud

Vestas is the energy industry's global partner on sustainable energy solutions. They have installed more wind power than anyone else, with more than 108 billion watts of wind turbines in 80 countries. Data's importance to Vestas meant they wanted to put more of it in their business users' hands. This would enable them to test new scenarios and explore insights. Vestas adopted SAP Data Warehouse Cloud to empower its business users with self-service data access.

PAIN POINT

- ✗ Data stored in multiple sources: BW 7.5 on HANA, Oracle, MS SQL Server.
- ✗ No self service data access for business users
- ✗ Long IT lead times (up to 2 months) for data
- ✗ No real time analytics. Data needed to be replicated in SAC
- ✗ Prolonged data to insights time

SOLUTION

- ✓ Connected non-SAP data (MS SQL Server, Oracle, flat files) with SAP data (ECC and BW 7.5)
- ✓ Self-service data access and modeling cut downs IT lead times by 95% (2 months to 2 days)
- ✓ Business users can now connect, model, and visualize data
- ✓ Data virtualized or replicated in DWC
- ✓ Real time analytics with live connection between DWC and SAC



"Together, SAP Data Warehouse Cloud and SAP Analytics Cloud provide trusted data insights. Previously, importing data into our analytics tool was not only a time-consuming and manual effort, but it was also error prone. Now, with a direct live connection we have the confidence to start analyzing data knowing that the information we work with can be trusted in 100% as the data is recognizable."

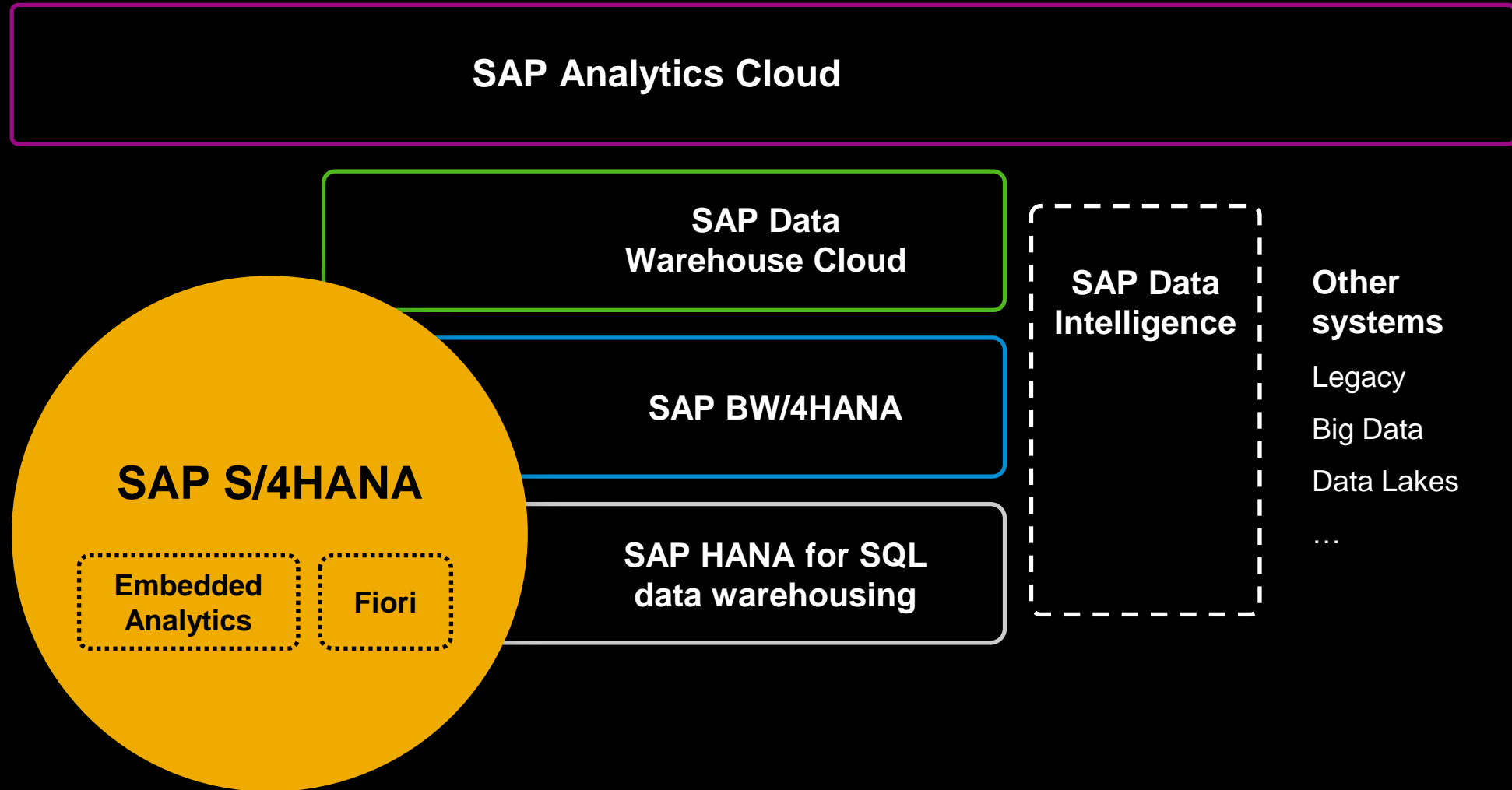
Caio Castro
BI Specialist at Vestas at Vestas

For more details [check out the blog](#) on Vestas and SAP Data Warehouse Cloud

Use case 2: Enterprise Data Warehouse



SAP data warehousing solutions for SAP S/4HANA



SAP DW for SAP ERP: customer situations and primary recommendations

New or existing ERP customers **new to Data Warehousing**



Exceptions could be valid (e.g. when a SaaS DW is not in the strategic direction)

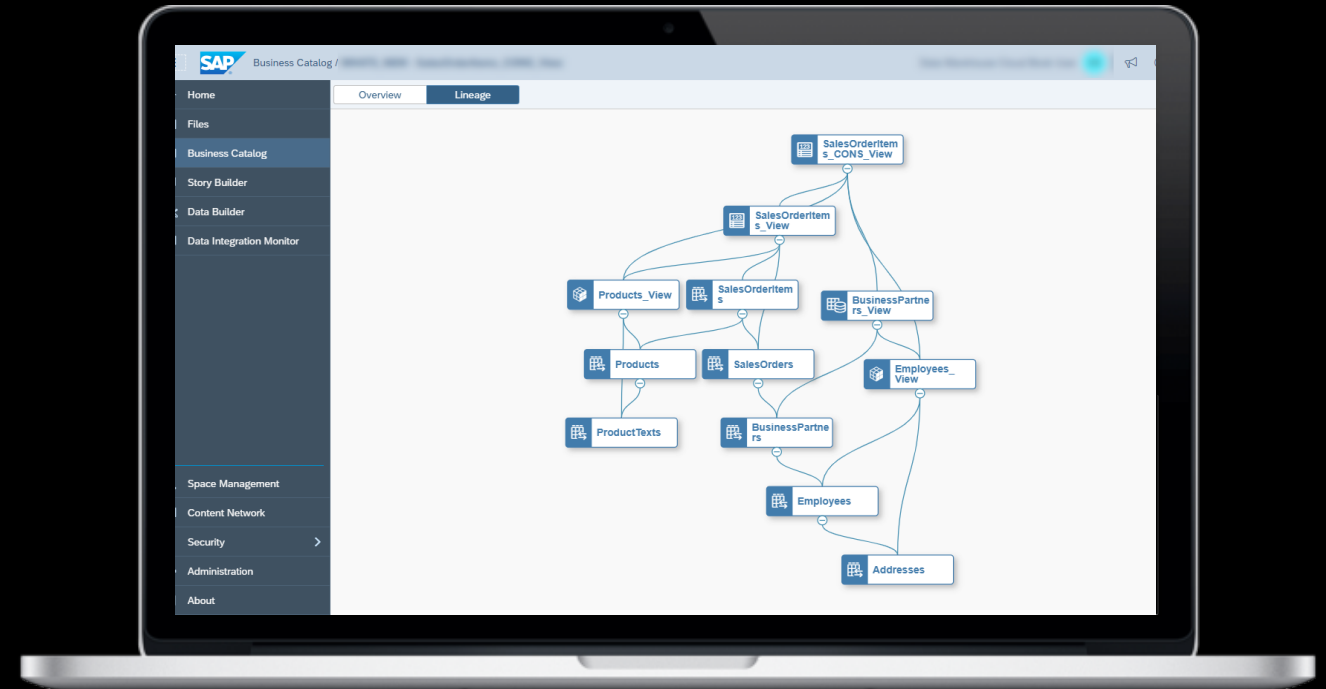
Existing ERP customers **with current SAP BW install**



SAP Data Warehouse Cloud for SAP S/4HANA

Fully managed data warehouse service

- Aligns with SAP's SaaS ERP strategy
- End-to-end SaaS data warehousing solution with self-service modeling / analytics designed for business & IT users
- Access data dictionary and CDS views to understand data models and federate data
- Prebuilt business content from SAP & Partners for SAP and non-SAP data sources
- Connect to all data (cloud and on-premise) to minimize data copies while governed by IT
- Easy to use with graphical and SQL modeling capabilities, including data transformations
- Opportunity to establish DW processes from ground-up



Benefits:

Faster time-to-value

Simplified cloud adoption

Business and IT empowerment

SAP Data Warehouse Cloud

CUSTOMER STORIES:



Real-time
data access
and reporting

Reduction
in reporting from
weeks to minutes

100

users of analytics by
Q4 2021

Quadpack is a global provider of hybrid packaging solutions for the beauty industry. To streamline their analytics and empower regions to make faster decisions, Quadpack simplified its existing data landscape with SAP Data Warehouse Cloud uniting all their data sources into one central access layer. They now have real-time data access and lean reporting with SAP Analytics Cloud.

PAIN POINT

- ✗ Critical data spread across five different ERP systems
- ✗ Data consolidation process require manual actions, like cleaning up data
- ✗ Disparate data sources made reporting arduous and time-consuming
- ✗ No real-time data access meant global offices had to wait for data
- ✗ No single point of access and source of truth

SOLUTION

- ✓ ERPs consolidated into SAP S/4HANA Cloud. SAP Data Warehouse Cloud replicates data in real-time from SAP S/4HANA Cloud
- ✓ SAP Data Warehouse Cloud's Data Flow Builder consolidated ERP data from SAP S/4HANA Cloud and SQL Server into one place
- ✓ Real-time dashboards empower global regions
- ✓ Single point of truth to centralize all data, regardless of the source
- ✓ Self-service modeling capabilities empower business users



"With SAP Data Warehouse Cloud, we're ready for anything. We have all our data sources united in the cloud. All our regions are happy to have real-time data access that will enable them to generate insights and react quickly for the benefit of our entire business."

Jordi Ambros
Business Intelligence Expert at Quadpack

For more details [check out the blog](#).

Use case 3: Operation cross system analysis



Data Driven Enterprise Workflow

SAP DWC as cross system analysis "hub"

SAP Managed Data

Hyper-scaler

SAP Public Cloud Apps

SAP SuccessFactors



SAP S/4HANA Cloud



SAP C/4HANA



SAP Fieldglass



SAP Concur



SAP on-premise

SAP S/4HANA



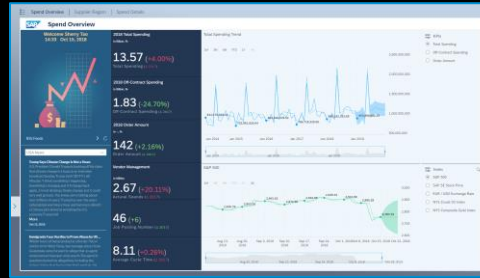
SAP BW/4HANA



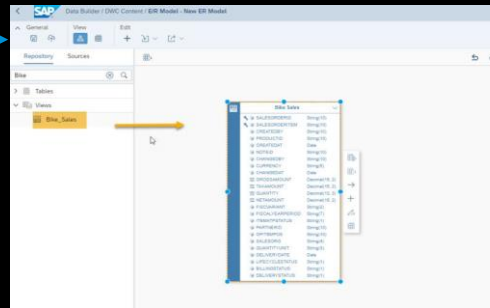
SAP HANA



SAP Data and Analytics



SAP Analytics Cloud



SAP Data Warehouse Cloud

Services
AWS Redshift

AWS S3

Microsoft Azure

Google Cloud Platform

SAP Native - - - -
Hyper-scaler - - - -

Example of Pre-built solutions for SAP Data Warehouse Cloud

Financial analytics – real-time analytics of S/4 HANA and Successfactors



SAP Data Warehouse Cloud

CUSTOMER STORIES:



100

analytics power
users

27

connections to S/4HANA
Cloud

Consolidated

S/4HANA Cloud with
external data

Interdobs is a Netherlands-based SAP partner, responsible for implementing SAP solutions for customers across industries and locations. They have partnered with a leading chemical manufacturer and deployed SAP S/4HANA, SAP Data Warehouse Cloud, and SAP Analytics Cloud there to provide a uniform reporting platform throughout all of customer's business sites.

PAIN POINT

- ✗ Different systems and products deployed in different locations: S/4HANA, AGRESSO, ADEX, Navision
- ✗ Flat files used for budgeting and historical figures
- ✗ No single point of truth and no single data access point
- ✗ Different currencies and units of measure in different locations
- ✗ Lack of analytics and reporting capabilities

SOLUTION

- ✓ All data sources consolidated in Data Warehouse Cloud with a single point of access and truth for the entire organization
- ✓ Data replicated in Data Warehouse Cloud and combined with flat files for a central data model repository
- ✓ Global sales dashboard built in SAP Analytics Cloud
- ✓ Development of financial, purchasing, product costing, and quality testing dashboards in the near future



"With SAP Data Warehouse as the center of our customer's landscape, they gained a single access point to all data and a single source of truth for all employees in the organization. SAP S/4HANA and SAP Analytics Cloud's native integration with SAP Data Warehouse Cloud make analytics and planning an integral part of our customer's operations. With all three solutions working together, our customer has now a real-time overview of how their business is doing."

Ronald Konijnenburg
Chief Innovation Officer at Interdobs

For more details [check out the blog](#) on Interdobs and SAP Data Warehouse Cloud

SAP Data Warehouse Cloud vs competition



Main competitors



Snowflake

- Snowflake is an independent, pure-play, cloud-native data warehouse-as-a-service specialist

What is Snowflake product?

- Column store architecture
- Patented, multi-cluster, shared data and multi-tenant architecture
- Separation of storage and compute
- Multi-cloud deployment
- Automated tuning –no indexing or optimization required

Strong points

- Full elasticity
- Growing customer base, market reputation
- Performance
- Snowflake as company only focus on this product



AWS Redshift

- AWS Redshift is cloud data warehousing solution from Amazon Webservices.
- AWS Redshift is centre piece of the AWS Data services

What is AWS Redshift product?

- Column store architecture
- Deep integration and optimal performance on AWS S3 storage
- Query federation to other AWS solution like PostgreSQL
- Flexible payment option- separation of storage and compute
- Machine learning to optimize performance

Strong points

- Scalability
- Strong integration with S3
- Cost effective solution
- Large global footprint



MS Synapse Analytics

- MS Synapse Analytics is a complete data management offering
- Including data warehouse, analytics, data lake and integration services

What is MS Synapse Analytics?

- Data management service offering
- Synapse studio
- Platform services for DW and big data scenarios
- SQL and Apache spark engines

Strong points

- Large customer base
- Azure & MS DW offering well known
- Very strong market reputation
- Power BI driving backend

Data Warehouse Cloud – key differentiator



One integrated platform

- Integration, Database, Data Management, Governance, Analytics – all in one platform



Self-service data modeling

- Business users and IT collaborate around self-service models and self-service data pipelining



Pre-delivered content

- Pre delivered SAP content
- SAP Semantics
- Standard SAP integration



HANA platform features

- **Query Federation**
- Unique modeling capabilities- virtual modeling
- HANA engine: OLTP/OLAP , graph, spatial, text

SAP Data Warehouse Cloud improvement points



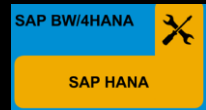
Full elasticity on roadmap

- Scale up/down not automatically reflected on SAP invoice



Not available on all hyper-scalers yet

- Azure is Q3 2021



Standard application features on roadmap

Not fully on par with SAP BW/4HANA standards

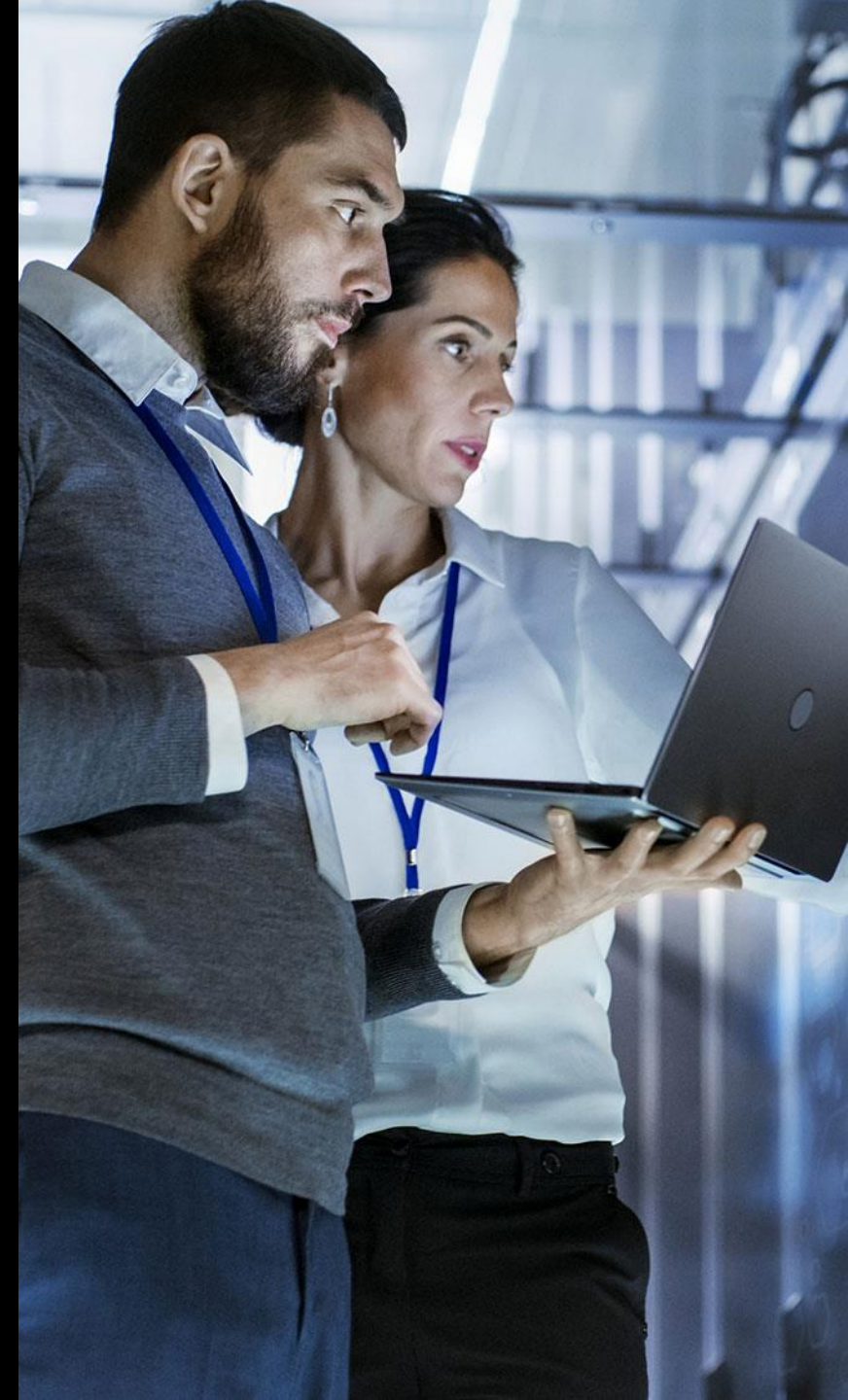
- Standard request & error handling
- Standard currency translation
- Standard referential integrity checks
- Extended Processchains (metachains)



Customer base

- Customer base is growing , but still few compared to competition

Gartner MQ – Cloud DBMS Q3 2020



Forrester Wave: Data Management for Analytics, Q1 2020



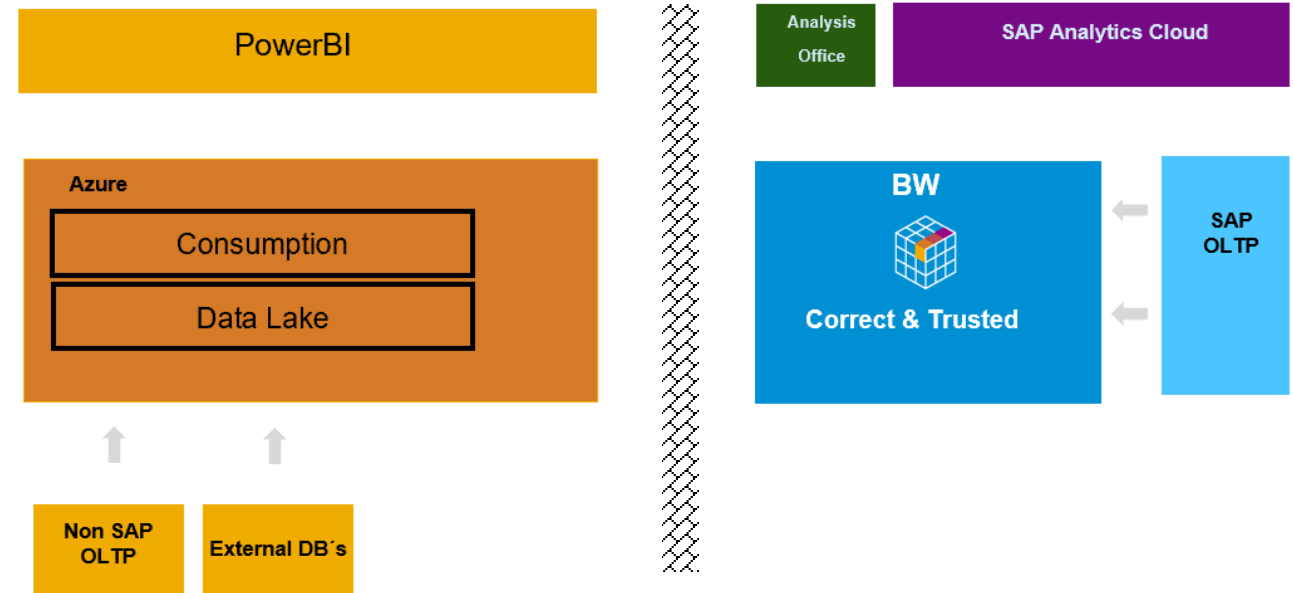
SAP Data Warehouse Cloud unique feature explained



Challenge – Common situation and challenge

Separate Island of information

- License obstacles
- Technology & tools
- Know how
- Cost
- The organization do not see the need to combine data



High cost



Longer time to insight



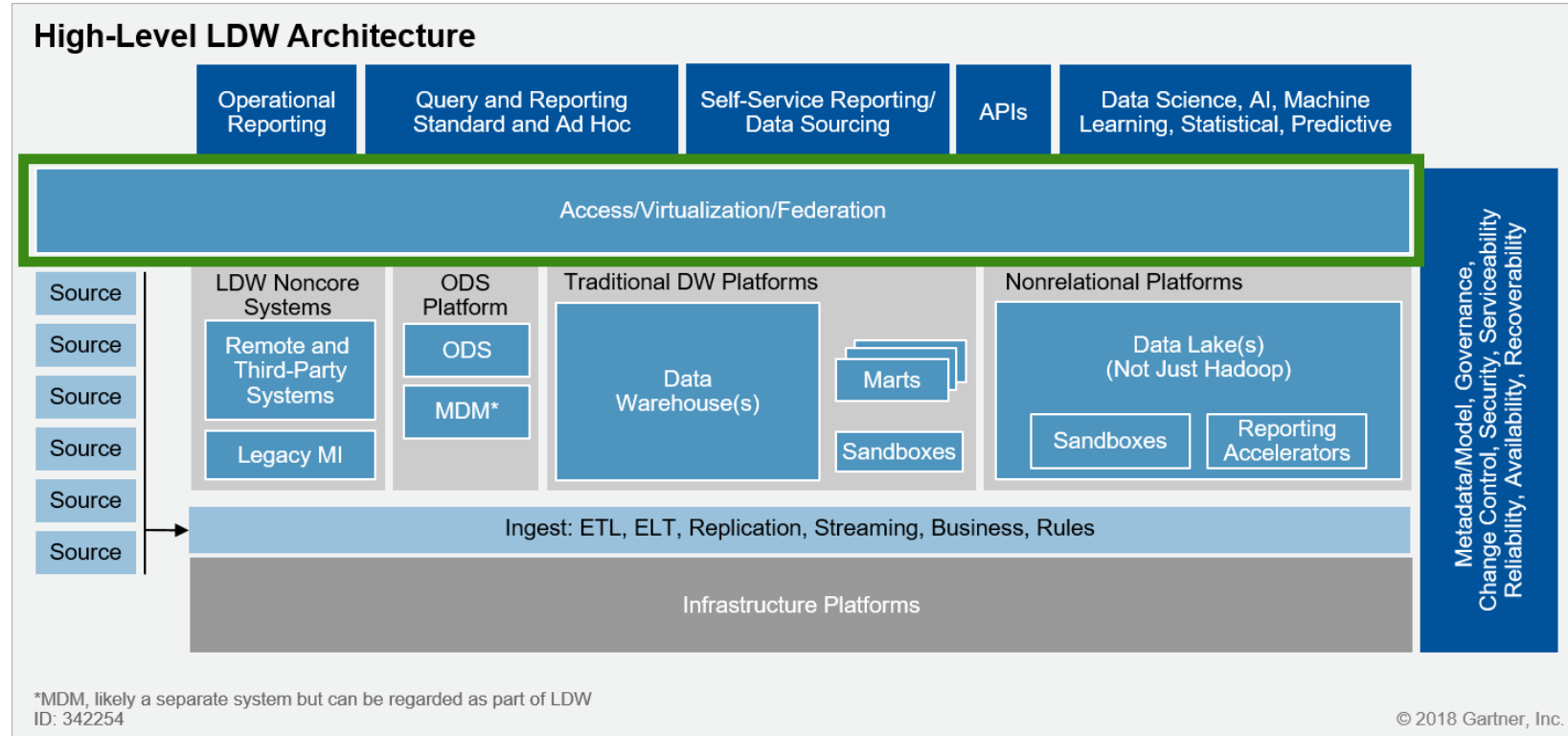
Access to data

Data Management Architecture – Gartner Logical Data Warehouse

Gartner LDW

Access/Virtualization/Federation

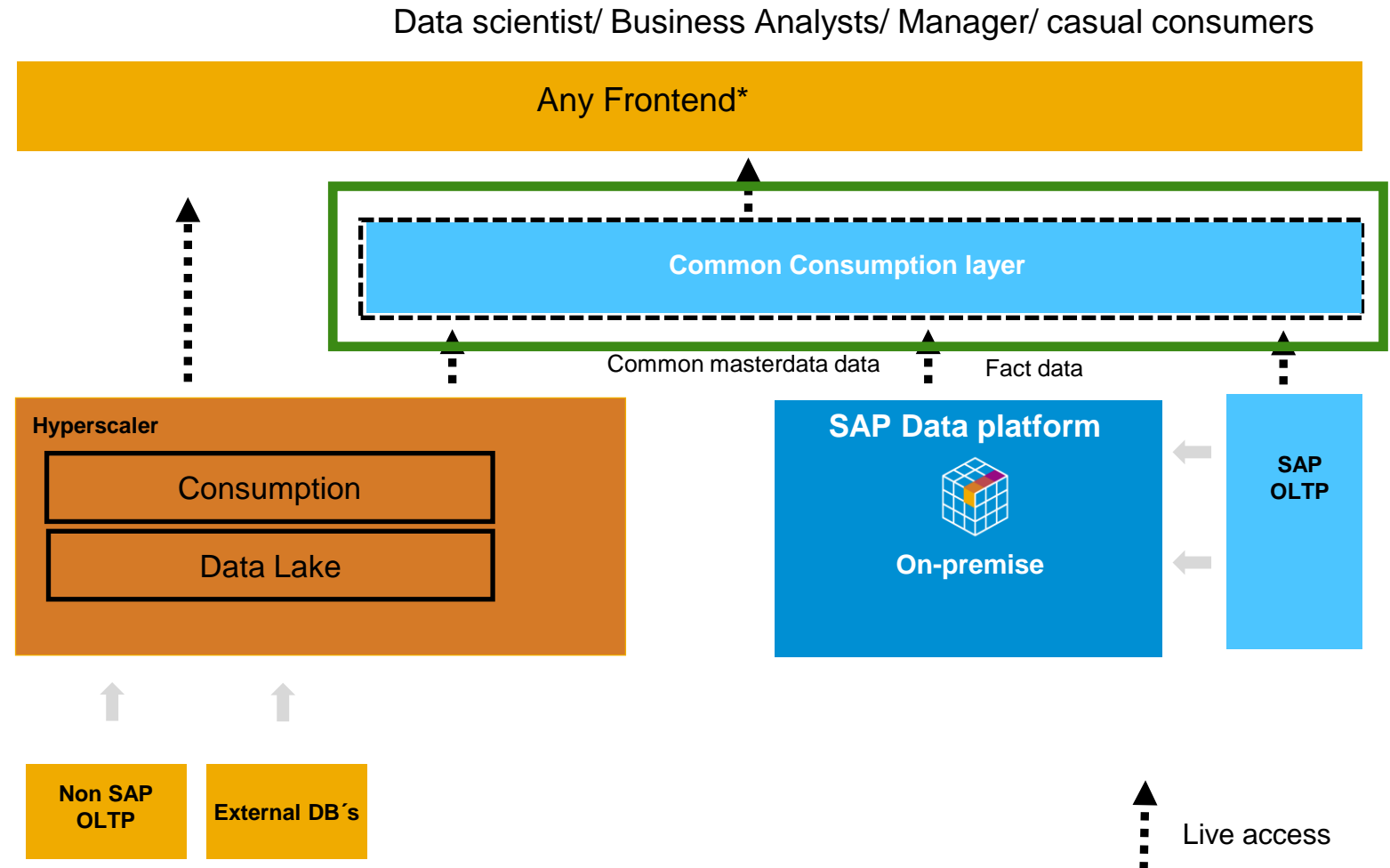
- Minimize data movement
- Laster time to Insight
- Reduce cost



Data Management Architecture – Common Consumption layer

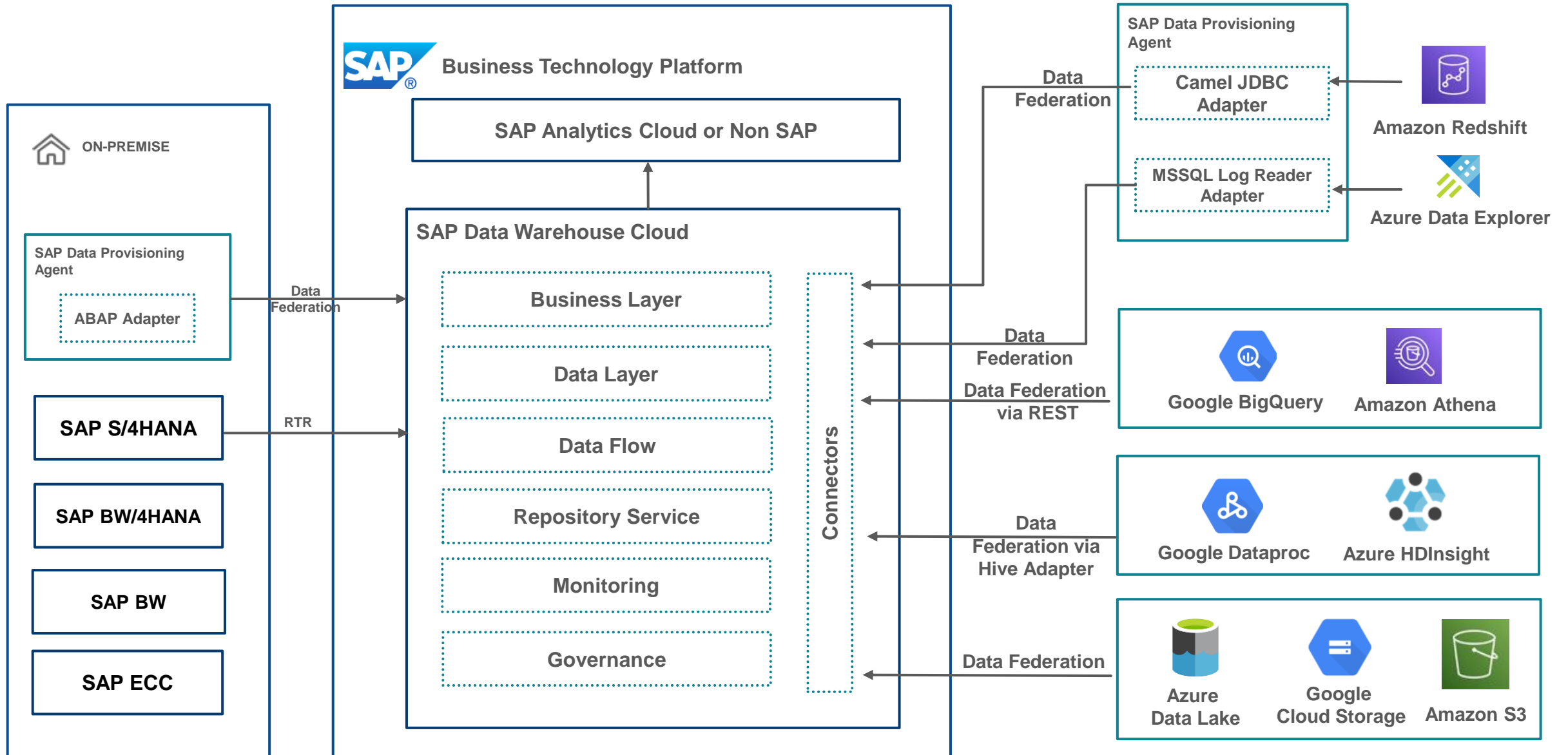
Common Consumption layer

- **One R&A concept**
- **One skillset**
- **Common Masterdata in sync**
- **No data movement** (Hyperscaler + SAP)
- **Query Federation** – Data stays in source
 - **Virtual Data models** – minimum persistency
 - **Faster time to insight** – Fewer layers to load
 - **Supports both SQL and MDX** (Multidimensional analysis) in any combination
 - **Shorter time to market** – Virtual concept allows for agile development



* SAP Analytics Cloud, Analysis for Office , Power BI and more

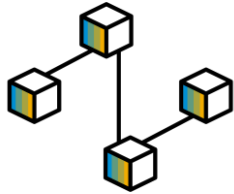
SAP Reference Architecture – SAP DWC as “Consumption layer” for query federation



SAP Data Warehouse Cloud – Data Federation Explained

- SAC can access Hyper-scaler data in real time via SAP DWC
- Data Federation / Query Federation delegates the query to the source system and only the result is visualized
- No data replication from Hyper-scaler to SAP DWC
- Data Federation available for S/4HANA & BW/4HANA data to SAP DWC
- Build semantic models virtually combining data from AWS , SAP and other hyper-scalers like GCP & Azure without any replication.

Why SAP Data Warehouse Cloud as Common consumption layer



Query federation to all source



Virtual data modeling and Business owned layer



Flexible & predictable



Easy to replicate slow performing tables

SAP Data Warehouse Cloud - Query Federation customer cases



A Success Story: Validation of Data Federation Architecture

PoC at Large Beverage Company in Europe

- PoC for building SAP Analytics Cloud (SAC) dashboard for IoT timeseries data stored in Azure Data Explorer (ADX) using data federation via SAP Data Warehouse Cloud (DWC) was executed successfully.
- Customer successfully executed SAP's recommended architecture and PoC in their own account and verified it with **real data**
- After performance optimization, the end-to-end (ADX->SDI Data Federation->DWC->SAC) response time was impressive.
- Federated queries on **183 million rows** of ADX data was visualized in SAC with average end-to-end performance time of **under 2 seconds** via DWC. All of this was achieved in Customers test landscape with real data.
- The test was conducted with SAC and DWC running as managed services on AWS Frankfurt region and ADX running in Azure Amsterdam region.

Opportunity

- With this PoC DWC has established itself as a Logical Data Warehouse Cloud for all non-SAP/Hyperscaler data.
- Since queries are federated, customers can leverage the existing investment and data replications can be stopped
- This becomes an effective tool in our message to put an end to SAP data extraction to hyperscaler services.

Next Step

- Data Federation architecture will be published as reference architecture together with Microsoft
- To accelerate this message, we have created Discovery Center mission, How-to blog and GitHub repo with sample code
- An OpenSAP course is planned with Microsoft as part of the Embrace 2.0 partnership to promote the architecture

More Details

Performance

- End to End (till SAC) data federation performance of **less than 1.9 second** was achieved in the customer environment with over **183 million** row of non-SAP data.
- Fastest response time was **0.6 second**
- No additional indices or services were needed

Other Benefits

- Real time and on-the-fly data access for ALL data
- Business semantic layer augments on-prem S/4 HANA data with IoT data in non-SAP system instantly making it available for analytics, prediction and more
- Build unified dashboards and stories

AWS Pilot Customer – In Development

PoC at Largest Pharma Company in Europe

- PoC for building SAP Analytics Cloud (SAC) dashboard for 3rd party market data stored in S3 queried through Amazon Athena using data federation via SAP Data Warehouse Cloud (DWC) was executed successfully.
- Customer wants all non-SAP data to be visualized in SA
- SAP data from ECC will be augmented for specific deeper analytics
- Heavy focus on performance optimization and the end-to-end (S3->Athena>SDI Data Federation->DWC->SAC) response time.
- The test will be conducted with SAC and DWC running as managed services on AWS Frankfurt region.

Opportunity

- With this PoC DWC has established itself as a Logical Data Warehouse Cloud for all non-SAP/Hyperscaler data.
- Since queries are federated, customers can leverage the existing investment and data replications can be stopped
- This becomes an effective tool in our message to put an end to SAP data extraction to hyperscaler services.

Do you want to try SAP Data Warehouse Cloud?

SAP Data Warehouse Cloud

Technical Academy

The purpose of the hands-on exercises are to get you familiar with the Data Warehouse Cloud solution. There are four runbooks available.

1. The "**Simple Start**" workshop provides a quick overview of the Data Warehouse Cloud. It walks participants thru the process of loading data from flat files, creating a model, and creating analytical stories in the SAP Analytics Cloud.
2. The second runbook provides a **deep dive thru Data Warehouse Cloud**. It demonstrates how to create Entity-Relationship views, data views, and creates a simple analytical story in the SAP analytics cloud.
3. The third runbook (1 of 2) **explores the Data Builder** in Data Warehouse Cloud. It demonstrates how to create Joins, Calculated Columns, Aggregation and Hierarchies using Graphical views, SQL views and Entity-Relationship views. Data are also loaded from flat files and tables federated from HANA Cloud.
4. In the fourth runbook (2 of 2) we will leverage the model created in the 'Data Modeling in Data Builder' exercise to consume and visualize the data by means of a dashboard.

90 day POC environment

Get a trial environment where you can work with your data

The system will be available for 90 days with full functionality where you can build E2E scenarios, incl your own connections.

Presales resources from SAP Sweden will be supporting and involved in the POC.

The POC should have clear evaluation use cases and success criteria's.

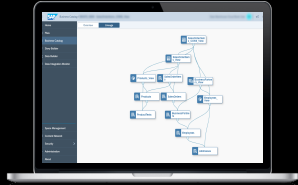
Any solutions built in the POC cannot be migrated to a productive environment.

Partner resources can be involved in POC work

No cost for you as a customer

Contact kenneth.dalvik@sap.com or your partner

SAP Data Warehouse Cloud – Conclusion



New SAP S/4HANA - SAP DWC is recommended platform



How does it stand vs competition?

- One integrated tool
- Query federation
- Self-service data modeling



Common Consumption layer

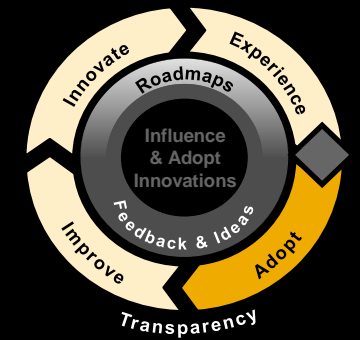
- Connect all data sources without moving data



Try it out!

- Technical Academy or 90 day free trial

Adopt Early Adopter Care Program HANA Cloud



Early Adopter Care* enables customers to get support with your early implementation of SAP Data Warehouse Cloud via an Early Adoption Care program in close collaboration with SAP with a dedicated back-office support infrastructure in place to safeguard your project and minimize risks

What is in for you?

- ❑ Preferred message handling
- ❑ Dedicated development contact and project coach who will stay in contact with the project lead
- ❑ 3 months FREE access to SAP Learning Hub (ALL content) for 5 users
- ❑ Option to influence direction of future releases with your feedback

How to get engaged with us?

- ❑ Visit <https://influence.sap.com/sap/ino/#campaign/2004> and register your company for this opportunity

Key Data

- ❑ Registration Start: July 15, 2019

Further information: [Service Brief](#)

Prerequisites:

^{Release}
Participation in the Early Adopter Care program is voluntary, at the sole discretion of SAP, and dependent on the following prerequisites:

- ❑ Valid Licenses
- ❑ Immediate desire to start a productive implementation
- ❑ Go-live within EAC program timeline
- ❑ Product fit

** These services complement SAP support services, and are available to all customers with a valid SAP license and maintenance contract. Please note that not all services are available for all SAP products.*

More Information about SAP Data Warehouse Cloud



Find out more at

www.sapdatawarehouse.cloud

- Onboarding Guide
- Learning Academy
- Blogs

[SAP Help Documentation](#)

[Calculator](#)

[SAP Road Map Explorer](#)

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The screenshot shows the SAP Data Warehouse Cloud Onboarding Guide landing page. It features a large header with the text "ONBOARDING GUIDE" and a sub-header "SAP DATA WAREHOUSE CLOUD BETA EXPERIENCE". Below the header, there are several learning modules listed in a grid:

- 01. Getting Started**: Go through an overview of SAP Data Warehouse Cloud and the first steps in setting up users.
- 02. Spaces**: Go through an overview of SAP Data Warehouse Cloud and the first steps in setting up users.
- 03. Data Modeling**: Go through an overview of SAP Data Warehouse Cloud and the first steps in setting up users.
- 04. Data Preparation**: Go through an overview of SAP Data Warehouse Cloud and the first steps in setting up users.
- 05. Data Story**: Go through an overview of SAP Data Warehouse Cloud and the first steps in setting up users.

The screenshot shows the "01 GETTING STARTED" page of the SAP Data Warehouse Cloud Onboarding Guide. It features a large yellow "01" and the text "GETTING STARTED". Below the header, there is a section titled "What is SAP Data Warehouse Cloud?" with a sub-header "What is the SAP Data Warehouse Cloud beta program?". The page includes a "SIGN UP" button and a "BETA LOGIN" button.

The screenshot shows the "02 SPACES" page of the SAP Data Warehouse Cloud Onboarding Guide. It features a large yellow "02" and the text "SPACES". Below the header, there is a section titled "What are Spaces?" with a sub-header "What are Spaces?". The page includes a "SIGN UP" button and a "BETA LOGIN" button.

The screenshot shows the "02 SPACES" page of the SAP Data Warehouse Cloud Onboarding Guide (continued). It features a section titled "What are Spaces?" with a sub-header "What are Spaces?". The page includes a "SIGN UP" button and a "BETA LOGIN" button.

Thank you.

Kenneth Dalvik

Presales Enterprise Architect

SAP Svenska

+46707895131

kenneth.dalvik@sap.com